

TETRA TECH NUS

N00158.AR.000258  
NAS WILLOW GROVE  
5090.3a

PHIL- 21200

**TO:** RUSS TURNER                    **DATE:** JULY 10, 2007  
**FROM:** MEGAN RITCHIE                **COPIES:** FILE  
**SUBJECT:** ORGANIC DATA VALIDATION – VOC, SVOC, AND PESTICIDE/PCB  
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA  
SDG NO. C7E030139  
**SAMPLES:** 1/Aqueous/  
    03-TB-03  
    5/Solid/  
    03TP07-0304-01    03TP07-0203-02    03TP08-0405-01  
    03TP08-0304-02    03TP08-0203-03

## OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Test Pits – Willow Grove, PA, SDG C7E030139 consists of 5 solid environmental samples (designated 03TP07- and 03TP08-), and 1 field quality control (QC) blank (designated 03-TB-). No samples were designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. No field duplicate pairs were included in this sample set. All samples except the trip blank were analyzed for select Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), pesticides, and Polychlorinated Biphenyls (PCBs). The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on May 2, 2007 and analyzed by Severn Trent Laboratories (STL) of Pittsburgh, Pennsylvania.

All analyses were conducted using EPA SW-846 Methods. VOCs were analyzed by 8260B, SVOCs by 8270C, and pesticides by 8081A, and PCBs by 8082.

## SUMMARY

All analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field quality control blank results, system monitoring compound recoveries, matrix spike/matrix spike duplicate results, laboratory control spike/spike duplicate results, internal standards performance, compound identification, and compound quantitation.

## MAJOR PROBLEMS

- The non-detected result for 2-butanone in sample 03-TB-03 was qualified as unusable (R) due to the initial calibration average relative response factor (RRF) less than 0.05.

PHIL- 21200  
Russ Turner  
July 10, 2007- Page 2

### MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory blank at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Methylene Chloride	1.6 ug/Kg	16 ug/Kg

Samples affected: The soil action levels apply to all soil samples.

Adjustments were made for the samples aliquot size, percent moisture, and dilution factors. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination).

- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of  $\pm 25\%$  for several pesticide compounds in sample 03TP07-0304-01, 03TP08-0203-03, and 03TP08-0405-01. These compounds were qualified as estimated (J).
- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

### Not s

#### Volatiles

The continuing calibration percent difference (%D) for 2-hexanone exceeded the QC criteria of 25%. No qualifications were made because there were no positive detections of 2-hexanone in the associated samples.

#### Semivolatiles

The initial calibration RSD for benzaldehyde and 2,4-dinitrophenol exceeded the 30% criteria. No qualifications were made because there were no positive detections of these compounds.

Several MS/MSD recoveries were outside QC limits. No action was taken on MS/MSD samples alone.

The LCS recovery for 3+4-methylphenol exceeded the upper QC limit of 105%. No action was taken because these compounds were not detected in the soil environmental samples.

PHIL- 21200  
Russ Turner  
July 10, 2007- Page 3

## EXECUTIVE SUMMARY

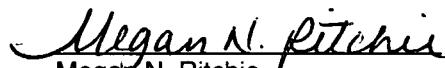
**Lab ratory Performance:** One compound had an average RRF less than 0.05. Methylene chloride was detected in the laboratory method blank. One VOC compound exceeded continuing calibration criteria. One SVOC compound exceeded initial calibration criteria. One LCS recovery exceeded criteria in the SVOC analysis.

**Other Factors Affecting Data Quality:** Several MS/MSD recoveries were outside QC limits in the SVOC analysis. The detected pesticide concentrations between two columns exceeded QC criteria for several samples.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Review", as amended for use within EPA Region 3 (9/94).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."



Megan N. Ritchie  
Chemist



Tetra Tech NUS, Inc.  
Russell Sloboda  
Data Validation Quality Assurance Officer

### Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Laboratory Analytical Results
3. Appendix C – Support Documentation

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP07-0203-02
samp_date	5/2/2007
lab_id	C7E030139002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

nsample	03TP07-0203-02
samp_date	5/2/2007
lab_id	C7E030139002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.1	U	
1,1,2,2-TETRACHLOROETHANE	5.1	U	
1,1,2-TRICHLOROETHANE	5.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.1	U	
1,1-DICHLOROETHANE	5.1	U	
1,1-DICHLOROETHENE	5.1	U	
1,2,3-TRICHLOROBENZENE	5.1	U	
1,2,4-TRICHLOROBENZENE	5.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.1	U	
1,2-DIBROMOETHANE	5.1	U	
1,2-DICHLOROBENZENE	5.1	U	
1,2-DICHLOROETHANE	5.1	U	
1,2-DICHLOROPROPANE	5.1	U	
1,3-DICHLOROBENZENE	5.1	U	
1,4-DICHLOROBENZENE	5.1	U	
2-BUTANONE	5.1	U	
2-HEXANONE	5.1	U	
4-METHYL-2-PENTANONE	5.1	U	
ACETONE	20	U	
BENZENE	5.1	U	
BROMOCHLOROMETHANE	5.1	U	
BROMODICHLOROMETHANE	5.1	U	
BROMOFORM	5.1	U	
BROMOMETHANE	5.1	U	
CARBON DISULFIDE	5.1	U	
CARBON TETRACHLORIDE	5.1	U	
CHLOROBENZENE	5.1	U	
CHLORODIBROMOMETHANE	5.1	U	
CHLOROETHANE	5.1	U	
CHLOROFORM	5.1	U	
CHLOROMETHANE	5.1	U	
CIS-1,2-DICHLOROETHENE	5.1	U	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.1	U	
CYCLOHEXANE	5.1	U	
DICHLORODIFLUOROMETHANE	5.1	U	
ETHYLBENZENE	5.1	U	
ISOPROPYLBENZENE	5.1	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5.1	U	
METHYL CYCLOHEXANE	5.1	U	
METHYL TERT-BUTYL ETHER	5.1	U	
METHYLENE CHLORIDE	1.9	B	A
O-XYLENE	5.1	U	
STYRENE	5.1	U	
TETRACHLOROETHENE	5.1	U	
TOLUENE	5.1	U	
TRANS-1,2-DICHLOROETHENE	5.1	U	
TRANS-1,3-DICHLOROPROPENE	5.1	U	
TRICHLOROETHENE	5.1	U	
TRICHLOROFLUOROMETHANE	5.1	U	
VINYL CHLORIDE	5.1	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.1	U	
1,1,2,2-TETRACHLOROETHANE	5.1	U	
1,1,2-TRICHLOROETHANE	5.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.1	U	
1,1-DICHLOROETHANE	5.1	U	
1,1-DICHLOROETHENE	5.1	U	
1,2,3-TRICHLOROBENZENE	5.1	U	
1,2,4-TRICHLOROBENZENE	5.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.1	U	
1,2-DIBROMOETHANE	5.1	U	
1,2-DICHLOROBENZENE	5.1	U	
1,2-DICHLOROETHANE	5.1	U	
1,2-DICHLOROPROPANE	5.1	U	
1,3-DICHLOROBENZENE	5.1	U	
1,4-DICHLOROBENZENE	5.1	U	
2-BUTANONE	5.1	U	
2-HEXANONE	5.1	U	
4-METHYL-2-PENTANONE	5.1	U	
ACETONE	20	U	
BENZENE	5.1	U	
BROMOCHLOROMETHANE	5.1	U	
BROMODICHLOROMETHANE	5.1	U	
BROMOFORM	5.1	U	
BROMOMETHANE	5.1	U	
CARBON DISULFIDE	5.1	U	
CARBON TETRACHLORIDE	5.1	U	
CHLOROBENZENE	5.1	U	
CHLORODIBROMOMETHANE	5.1	U	
CHLOROETHANE	5.1	U	
CHLOROFORM	5.1	U	
CHLOROMETHANE	5.1	U	
CIS-1,2-DICHLOROETHENE	5.1	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.1	U	
CYCLOHEXANE	5.1	U	
DICHLORODIFLUOROMETHANE	5.1	U	
ETHYLBENZENE	5.1	U	
ISOPROPYLBENZENE	5.1	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5.1	U	
METHYL CYCLOHEXANE	5.1	U	
METHYL TERT-BUTYL ETHER	5.1	U	
METHYLENE CHLORIDE	1.9	B	A
O-XYLENE	5.1	U	
STYRENE	5.1	U	
TETRACHLOROETHENE	5.1	U	
TOLUENE	5.1	U	
TRANS-1,2-DICHLOROETHENE	5.1	U	
TRANS-1,3-DICHLOROPROPENE	5.1	U	
TRICHLOROETHENE	5.1	U	
TRICHLOROFUOROMETHANE	5.1	U	
VINYL CHLORIDE	5.1	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	7.5	U	
1,1,2,2-TETRACHLOROETHANE	7.5	U	
1,1,2-TRICHLOROETHANE	7.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	7.5	U	
1,1-DICHLOROETHANE	7.5	U	
1,1-DICHLOROETHENE	7.5	U	
1,2,3-TRICHLOROBENZENE	7.5	U	
1,2,4-TRICHLOROBENZENE	7.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	7.5	U	
1,2-DIBROMOETHANE	7.5	U	
1,2-DICHLOROBENZENE	7.5	U	
1,2-DICHLOROETHANE	7.5	U	
1,2-DICHLOROPROPANE	7.5	U	
1,3-DICHLOROBENZENE	7.5	U	
1,4-DICHLOROBENZENE	7.5	U	
2-BUTANONE	7.5	U	
2-HEXANONE	7.5	U	
4-METHYL-2-PENTANONE	7.5	U	
ACETONE	30	U	
BENZENE	7.5	U	
BROMOCHLOROMETHANE	7.5	U	
BROMODICHLOROMETHANE	7.5	U	
BROMOFORM	7.5	U	
BROMOMETHANE	7.5	U	
CARBON DISULFIDE	7.5	U	
CARBON TETRACHLORIDE	7.5	U	
CHLOROBENZENE	7.5	U	
CHLORODIBROMOMETHANE	7.5	U	
CHLOROETHANE	7.5	U	
CHLOROFORM	7.5	U	
CHLOROMETHANE	7.5	U	
CIS-1,2-DICHLOROETHENE	7.5	U	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	7.5	U	
CYCLOHEXANE	7.5	U	
DICHLORODIFLUOROMETHANE	7.5	U	
ETHYLBENZENE	7.5	U	
ISOPROPYLBENZENE	7.5	U	
M+P-XYLENES	15	U	
METHYL ACETATE	7.5	U	
METHYL CYCLOHEXANE	7.5	U	
METHYL TERT-BUTYL ETHER	7.5	U	
METHYLENE CHLORIDE	2.6	B	A
O-XYLENE	7.5	U	
STYRENE	7.5	U	
TETRACHLOROETHENE	7.5	U	
TOLUENE	7.5	U	
TRANS-1,2-DICHLOROETHENE	7.5	U	
TRANS-1,3-DICHLOROPROPENE	7.5	U	
TRICHLOROETHENE	7.5	U	
TRICHLOROFUOROMETHANE	7.5	U	
VINYL CHLORIDE	7.5	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OV

nsample 03TP08-0304-02  
 samp\_date 5/2/2007  
 lab\_id C7E030139004  
 qc\_type NM  
 units UG/KG  
 Pct\_Solids 83.0  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.4	U		
1,1,2,2-TETRACHLOROETHANE	5.4	U		
1,1,2-TRICHLOROETHANE	5.4	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	5.4	U		
1,1-DICHLOROETHANE	5.4	U		
1,1-DICHLOROETHENE	5.4	U		
1,2,3-TRICHLOROBENZENE	5.4	U		
1,2,4-TRICHLOROBENZENE	5.4	U		
1,2-DIBROMO-3-CHLOROPROPANE	5.4	U		
1,2-DIBROMOETHANE	5.4	U		
1,2-DICHLOROBENZENE	5.4	U		
1,2-DICHLOROETHANE	5.4	U		
1,2-DICHLOROPROPANE	5.4	U		
1,3-DICHLOROBENZENE	5.4	U		
1,4-DICHLOROBENZENE	5.4	U		
2-BUTANONE	5.4	U		
2-HEXANONE	5.4	U		
4-METHYL-2-PENTANONE	5.4	U		
ACETONE	21	U		
BENZENE	5.4	U		
BROMOCHLOROMETHANE	5.4	U		
BROMODICHLOROMETHANE	5.4	U		
BROMOFORM	5.4	U		
BROMOMETHANE	5.4	U		
CARBON DISULFIDE	5.4	U		
CARBON TETRACHLORIDE	5.4	U		
CHLOROBENZENE	5.4	U		
CHLORODIBROMOMETHANE	5.4	U		
CHLOROETHANE	5.4	U		
CHLOROFORM	5.4	U		
CHLOROMETHANE	5.4	U		
CIS-1,2-DICHLOROETHENE	5.4	U		

nsample 03TP08-0304-02  
 samp\_date 5/2/2007  
 lab\_id C7E030139004  
 qc\_type NM  
 units UG/KG  
 Pct\_Solids 83.0  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.4	U		
CYCLOHEXANE	5.4	U		
DICHLORODIFLUOROMETHANE	5.4	U		
ETHYLBENZENE	5.4	U		
ISOPROPYLBENZENE	5.4	U		
M+P-XYLENES	11	U		
METHYL ACETATE	5.4	U		
METHYL CYCLOHEXANE	5.4	U		
METHYL TERT-BUTYL ETHER	5.4	U		
METHYLENE CHLORIDE	2.8	B	A	
O-XYLENE	5.4	U		
STYRENE	5.4	U		
TETRACHLOROETHENE	5.4	U		
TOLUENE	5.4	U		
TRANS-1,2-DICHLOROETHENE	5.4	U		
TRANS-1,3-DICHLOROPROPENE	5.4	U		
TRICHLOROETHENE	5.4	U		
TRICHLOROFLUOROMETHANE	5.4	U		
VINYL CHLORIDE	5.4	U		

nsample 03TP08-0405-01  
 samp\_date 5/2/2007  
 lab\_id C7E030139003  
 qc\_type NM  
 units UG/KG  
 Pct\_Solids 73.0  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	6.1	U		
1,1,2,2-TETRACHLOROETHANE	6.1	U		
1,1,2-TRICHLOROETHANE	6.1	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	6.1	U		
1,1-DICHLOROETHANE	6.1	U		
1,1-DICHLOROETHENE	6.1	U		
1,2,3-TRICHLOROBENZENE	6.1	U		
1,2,4-TRICHLOROBENZENE	6.1	U		
1,2-DIBROMO-3-CHLOROPROPANE	6.1	U		
1,2-DIBROMOETHANE	6.1	U		
1,2-DICHLOROBENZENE	6.1	U		
1,2-DICHLOROETHANE	6.1	U		
1,2-DICHLOROPROPANE	6.1	U		
1,3-DICHLOROBENZENE	6.1	U		
1,4-DICHLOROBENZENE	6.1	U		
2-BUTANONE	6.1	U		
2-HEXANONE	6.1	U		
4-METHYL-2-PENTANONE	6.1	U		
ACETONE	25	U		
BENZENE	6.1	U		
BROMOCHLOROMETHANE	6.1	U		
BROMODICHLOROMETHANE	6.1	U		
BROMOFORM	6.1	U		
BROMOMETHANE	6.1	U		
CARBON DISULFIDE	6.1	U		
CARBON TETRACHLORIDE	6.1	U		
CHLOROBENZENE	6.1	U		
CHLORODIBROMOMETHANE	6.1	U		
CHLOROETHANE	6.1	U		
CHLOROFORM	6.1	U		
CHLOROMETHANE	6.1	U		
CIS-1,2-DICHLOROETHENE	6.1	U		

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OV

nsample 03TP08-0405-01  
samp\_date 5/2/2007  
lab\_id C7E030139003  
qc\_type NM  
units UG/KG  
Pct\_Solids 73.0  
DUP\_OF:

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	6.1	U	
CYCLOHEXANE	6.1	U	
DICHLORODIFLUOROMETHANE	6.1	U	
ETHYLBENZENE	6.1	U	
ISOPROPYLBENZENE	6.1	U	
M+P-XYLENES	12	U	
METHYL ACETATE	6.1	U	
METHYL CYCLOHEXANE	6.1	U	
METHYL TERT-BUTYL ETHER	6.1	U	
METHYLENE CHLORIDE	2.7	B	A
O-XYLENE	6.1	U	
STYRENE	6.1	U	
TETRACHLOROETHENE	6.1	U	
TOLUENE	6.1	U	
TRANS-1,2-DICHLOROETHENE	6.1	U	
TRANS-1,3-DICHLOROPROPENE	6.1	U	
TRICHLOROETHENE	6.1	U	
TRICHLOROFUOROMETHANE	6.1	U	
VINYL CHLORIDE	6.1	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: WATER DATA FRACTION: OV

nsample 03TB-03  
 samp\_date 5/2/2007  
 lab\_id C7E030139006  
 qc\_type NM  
 units UG/L  
 Pct\_Solids  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U		
1,1,2,2-TETRACHLOROETHANE	5	U		
1,1,2-TRICHLOROETHANE	5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		
1,1-DICHLOROETHANE	5	U		
1,1-DICHLOROETHENE	5	U		
1,2,3-TRICHLOROBENZENE	5	U		
1,2,4-TRICHLOROBENZENE	5	U		
1,2-DIBROMO-3-CHLOROPROPANE	5	U		
1,2-DIBROMOETHANE	5	U		
1,2-DICHLOROBENZENE	5	U		
1,2-DICHLOROETHANE	5	U		
1,2-DICHLOROPROPANE	5	U		
1,3-DICHLOROBENZENE	5	U		
1,4-DICHLOROBENZENE	5	U		
2-BUTANONE	5	UR	C	
2-HEXANONE	5	U		
4-METHYL-2-PENTANONE	5	U		
ACETONE	20	U		
BENZENE	5	U		
BROMOCHLOROMETHANE	5	U		
BROMODICHLOROMETHANE	5	U		
BROMOFORM	5	U		
BROMOMETHANE	5	U		
CARBON DISULFIDE	5	U		
CARBON TETRACHLORIDE	5	U		
CHLOROBENZENE	5	U		
CHLORODIBROMOMETHANE	5	U		
CHLOROETHANE	5	U		
CHLOROFORM	5	U		
CHLOROMETHANE	5	U		
CIS-1,2-DICHLOROETHENE	5	U		

nsample 03TB-03  
 samp\_date 5/2/2007  
 lab\_id C7E030139006  
 qc\_type NM  
 units UG/L  
 Pct\_Solids  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U		
CYCLOHEXANE	5	U		
DICHLORODIFLUOROMETHANE	5	U		
ETHYLBENZENE	5	U		
ISOPROPYLBENZENE	5	U		
M+P-XYLENES	10	U		
METHYL ACETATE	5	U		
METHYL CYCLOHEXANE	5	U		
METHYL TERT-BUTYL ETHER	5	U		
METHYLENE CHLORIDE	5	U		
O-XYLENE	5	U		
STYRENE	5	U		
TETRACHLOROETHENE	5	U		
TOLUENE	5	U		
TRANS-1,2-DICHLOROETHENE	5	U		
TRANS-1,3-DICHLOROPROPENE	5	U		
TRICHLOROETHENE	5	U		
TRICHLOROFUOROMETHANE	5	U		
VINYL CHLORIDE	5	U		

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP07-0203-02		
samp_date	5/2/2007		
lab_id	C7E030139002		
qc_type	NM		
units	UG/KG		
Pct_Solids	82.0		
DUP_OF:			

nsample	03TP07-0203-02		
samp_date	5/2/2007		
lab_id	C7E030139002		
qc_type	NM		
units	UG/KG		
Pct_Solids	82.0		
DUP_OF:			

nsample	03TP07-0203-02		
samp_date	5/2/2007		
lab_id	C7E030139002		
qc_type	NM		
units	UG/KG		
Pct_Solids	82.0		
DUP_OF:			

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	400	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	400	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	930	U	
1,2,4,5-TETRACHLOROBENZENE	930	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	930	U	
2,3,4,6-TETRACHLOROPHENOL	930	U	
2,4,5-TRICHLOROPHENOL	930	U	
2,4,6-TRICHLOROPHENOL	930	U	
2,4-DICHLOROPHENOL	930	U	
2,4-DIMETHYLPHENOL	930	U	
2,4-DINITROPHENOL	4500	U	
2,4-DINITROTOLUENE	930	U	
2,6-DINITROTOLUENE	930	U	
2-CHLORONAPHTHALENE	930	U	
2-CHLOROPHENOL	930	U	
2-METHYLNAPHTHALENE	930	U	
2-METHYLPHENOL	930	U	
2-NITROANILINE	4500	U	
2-NITROPHENOL	930	U	
3,3'-DICHLOROBENZIDINE	4500	U	
3-NITROANILINE	4500	U	
4,6-DINITRO-2-METHYLPHENOL	4500	U	
4-BROMOPHENYL PHENYL ETHER	930	U	
4-CHLORO-3-METHYLPHENOL	930	U	
4-CHLOROANILINE	930	U	
4-CHLOROPHENYL PHENYL ETHER	930	U	
4-METHYLPHENOL	930	U	
4-NITROANILINE	4500	U	
4-NITROPHENOL	4500	U	
ACENAPHTHENE	930	U	
ACENAPHTHYLENE	930	U	
ACETOPHENONE	930	U	
ANTHRACENE	930	U	
ATRAZINE	930	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	930	U	
BENZO(A)ANTHRACENE	930	U	
BENZO(A)PYRENE	930	U	
BENZO(B)FLUORANTHENE	930	U	
BENZO(G,H,I)PERYLENE	930	U	
BENZO(K)FLUORANTHENE	930	U	
BIS(2-CHLOROETHOXY)METHANE	930	U	
BIS(2-CHLOROETHYL)ETHER	930	U	
BIS(2-ETHYLHEXYL)PHTHALATE	390	J	P
BUTYL BENZYL PHTHALATE	930	U	
CAPROLACTAM	930	U	
CARBAZOLE	930	U	
CHRYSENE	930	U	
DIBENZO(A,H)ANTHRACENE	930	U	
DIBENZOFURAN	930	U	
DIETHYL PHTHALATE	930	U	
DIMETHYL PHTHALATE	930	U	
DI-N-BUTYL PHTHALATE	930	U	
DI-N-OCTYL PHTHALATE	930	U	
FLUORANTHENE	930	U	
FLUORENE	930	U	
HEXACHLOROBENZENE	930	U	
HEXACHLOROBUTADIENE	930	U	
HEXACHLOROCYCLOPENTADIENE	4500	U	
HEXACHLOROETHANE	930	U	
INDENO(1,2,3-CD)PYRENE	930	U	
ISOPHORONE	930	U	
NAPHTHALENE	930	U	
NITROBENZENE	930	U	
N-NITROSO-DI-N-PROPYLAMINE	930	U	
N-NITROSODIPHENYLAMINE	930	U	
PENTACHLOROPHENOL	4500	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	930	U	
PHENOL	930	U	
PYRENE	930	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP08-0304-02
samp_date	5/2/2007
lab_id	C7E030139004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP08-0304-02
samp_date	5/2/2007
lab_id	C7E030139004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP08-0304-02
samp_date	5/2/2007
lab_id	C7E030139004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	400	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP08-0405-01
samp_date	5/2/2007
lab_id	C7E030139003
qc_type	NM
units	UG/KG
Pct_Solids	73.0
DUP_OF:	

nsample	03TP08-0405-01
samp_date	5/2/2007
lab_id	C7E030139003
qc_type	NM
units	UG/KG
Pct_Solids	73.0
DUP_OF:	

nsample	03TP08-0405-01
samp_date	5/2/2007
lab_id	C7E030139003
qc_type	NM
units	UG/KG
Pct_Solids	73.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	450	U	
1,2,4,5-TETRACHLOROBENZENE	450	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	450	U	
2,3,4,6-TETRACHLOROPHENOL	450	U	
2,4,5-TRICHLOROPHENOL	450	U	
2,4,6-TRICHLOROPHENOL	450	U	
2,4-DICHLOROPHENOL	450	U	
2,4-DIMETHYLPHENOL	450	U	
2,4-DINITROPHENOL	2200	U	
2,4-DINITROTOLUENE	450	U	
2,6-DINITROTOLUENE	450	U	
2-CHLORONAPHTHALENE	450	U	
2-CHLOROPHENOL	450	U	
2-METHYLNAPHTHALENE	450	U	
2-METHYLPHENOL	450	U	
2-NITROANILINE	2200	U	
2-NITROPHENOL	450	U	
3,3'-DICHLOROBENZIDINE	2200	U	
3-NITROANILINE	2200	U	
4,6-DINITRO-2-METHYLPHENOL	2200	U	
4-BROMOPHENYL PHENYL ETHER	450	U	
4-CHLORO-3-METHYLPHENOL	450	U	
4-CHLOROANILINE	450	U	
4-CHLOROPHENYL PHENYL ETHER	450	U	
4-METHYLPHENOL	450	U	
4-NITROANILINE	2200	U	
4-NITROPHENOL	2200	U	
ACENAPHTHENE	450	U	
ACENAPHTHYLENE	450	U	
ACETOPHENONE	450	U	
ANTHRACENE	450	U	
ATRAZINE	450	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	450	U	
BENZO(A)ANTHRACENE	93	J	P
BENZO(A)PYRENE	62	J	P
BENZO(B)FLUORANTHENE	61	J	P
BENZO(G,H,I)PERYLENE	59	J	P
BENZO(K)FLUORANTHENE	450	U	
BIS(2-CHLOROETHOXY)METHANE	450	U	
BIS(2-CHLOROETHYL)ETHER	450	U	
BIS(2-ETHYLHEXYL)PHTHALATE	450	U	
BUTYL BENZYL PHTHALATE	450	U	
CAPROLACTAM	450	U	
CARBAZOLE	450	U	
CHRYSENE	100	J	P
DIBENZO(A,H)ANTHRACENE	450	U	
DIBENZOFURAN	450	U	
DIETHYL PHTHALATE	450	U	
DIMETHYL PHTHALATE	450	U	
DI-N-BUTYL PHTHALATE	450	U	
DI-N-OCTYL PHTHALATE	450	U	
FLUORANTHENE	160	J	P
FLUORENE	450	U	
HEXACHLOROBENZENE	450	U	
HEXACHLOROBUTADIENE	450	U	
HEXACHLOROCYCLOPENTADIENE	2200	U	
HEXACHLOROETHANE	450	U	
INDENO(1,2,3-CD)PYRENE	62	J	P
ISOPHORONE	450	U	
NAPHTHALENE	450	U	
NITROBENZENE	450	U	
N-NITROSO-DI-N-PROPYLAMINE	450	U	
N-NITROSODIPHENYLAMINE	450	U	
PENTACHLOROPHENOL	2200	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	180	J	P
PHENOL	450	U	
PYRENE	160	J	P

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	03TP07-0203-02
samp_date	5/2/2007
lab_id	C7E030139002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

nsample	03TP07-0304-01
samp_date	5/2/2007
lab_id	C7E030139001
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP08-0203-03
samp_date	5/2/2007
lab_id	C7E030139005
qc_type	NM
units	UG/KG
Pct_Solids	71.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2.1	U	
4,4'-DDE	2.1	U	
4,4'-DDT	2.1	U	
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
AROCLOR-1016	20	U	
AROCLOR-1221	20	U	
AROCLOR-1232	20	U	
AROCLOR-1242	20	U	
AROCLOR-1248	20	U	
AROCLOR-1254	20	U	
AROCLOR-1260	20	U	
AROCLOR-1262	20	U	
AROCLOR-1268	20	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	2.1	U	
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	2.1	U	
ENDOSULFAN SULFATE	2.1	U	
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	2.1	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2.1	U	
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4	U	
TOXAPHENE	82	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2.1	U	
4,4'-DDE	2.1	U	
4,4'-DDT	2.1	U	
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
AROCLOR-1016	20	U	
AROCLOR-1221	20	U	
AROCLOR-1232	20	U	
AROCLOR-1242	20	U	
AROCLOR-1248	20	U	
AROCLOR-1254	20	U	
AROCLOR-1260	20	U	
AROCLOR-1262	20	U	
AROCLOR-1268	20	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	2.1	U	
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	0.71	J PU	
ENDOSULFAN SULFATE	2.1	U	
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	2.1	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2.1	U	
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4	U	
TOXAPHENE	81	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.4	J PU	
4,4'-DDE	6.6		
4,4'-DDT	15		
ALDRIN	2.3	J P	
ALPHA-BHC	2.4	U	
ALPHA-CHLORDANE	3.1		
AROCLOR-1016	24	U	
AROCLOR-1221	24	U	
AROCLOR-1232	24	U	
AROCLOR-1242	24	U	
AROCLOR-1248	24	U	
AROCLOR-1254	24	U	
AROCLOR-1260	46		
AROCLOR-1262	24	U	
AROCLOR-1268	24	U	
BETA-BHC	2.4	U	
DELTA-BHC	0.55	J PU	
DIELDRIN	330		
ENDOSULFAN I	2.4	U	
ENDOSULFAN II	0.63	J PU	
ENDOSULFAN SULFATE	2.2	J P	
ENDRIN	4.5	J U	
ENDRIN ALDEHYDE	1.6	J PU	
ENDRIN KETONE	2.7	J U	
GAMMA-BHC (LINDANE)	0.99	J P	
GAMMA-CHLORDANE	4.2	J U	
HEPTACHLOR	0.52	J PU	
HEPTACHLOR EPOXIDE	2.4	U	
METHOXYCHLOR	2.2	J PU	
TOXAPHENE	95	U	

**PROJ\_NO:** 2192

SDG: C7E030139 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample 03TP08-0304-02  
 samp\_date 5/2/2007  
 lab\_id C7E030139004  
 qc\_type NM  
 units UG/KG  
 Pct\_Solids 83.0  
 DUP\_OF:

nsample 03TP08-0405-01  
 samp\_date 5/2/2007  
 lab\_id C7E030139003  
 qc\_type NM  
 units UG/KG  
 Pct\_Solids 73.0  
 DUP\_OF:

Parameter	Result	Val	Qual	Qual Code
4,4'-DDD	2	U		
4,4'-DDE	2	U		
4,4'-DDT	2	U		
ALDRIN	2	U		
ALPHA-BHC	2	U		
ALPHA-CHLORDANE	2	U		
AROCLOR-1016	20	U		
AROCLOR-1221	20	U		
AROCLOR-1232	20	U		
AROCLOR-1242	20	U		
AROCLOR-1248	20	U		
AROCLOR-1254	20	U		
AROCLOR-1260	20	U		
AROCLOR-1262	20	U		
AROCLOR-1268	20	U		
BETA-BHC	2	U		
DELTA-BHC	2	U		
DIELDRIN	2	U		
ENDOSULFAN I	2	U		
ENDOSULFAN II	2	U		
ENDOSULFAN SULFATE	2	U		
ENDRIN	2	U		
ENDRIN ALDEHYDE	2	U		
ENDRIN KETONE	2	U		
GAMMA-BHC (LINDANE)	2	U		
GAMMA-CHLORDANE	2	U		
HEPTACHLOR	2	U		
HEPTACHLOR EPOXIDE	2	U		
METHOXYCHLOR	4	U		
TOXAPHENE	81	U		

Parameter	Result	Val	Qual	Qual Code
4,4'-DDD	1.4	J	PU	
4,4'-DDE	3.8			
4,4'-DDT	8.6			
ALDRIN	0.61	J	PU	
ALPHA-BHC	2.3	U		
ALPHA-CHLORDANE	1.3	J	PU	
AROCLOR-1016	23	U		
AROCLOR-1221	23	U		
AROCLOR-1232	23	U		
AROCLOR-1242	23	U		
AROCLOR-1248	23	U		
AROCLOR-1254	23	U		
AROCLOR-1260	23	U		
AROCLOR-1262	23	U		
AROCLOR-1268	23	U		
BETA-BHC	2.3	U		
DELTA-BHC	2.3	U		
DIELDRIN	120			
ENDOSULFAN I	2.3	U		
ENDOSULFAN II	2.3	U		
ENDOSULFAN SULFATE	0.61	J	PU	
ENDRIN	1.8	J	P	
ENDRIN ALDEHYDE	1	J	P	
ENDRIN KETONE	0.94	J	PU	
GAMMA-BHC (LINDANE)	0.81	J	P	
GAMMA-CHLORDANE	2.3	J	U	
HEPTACHLOR	2.3	U		
HEPTACHLOR EPOXIDE	2.3	U		
METHOXYCHLOR	2.5	J	PU	
TOXAPHENE	91	U		

**Data Qualifier Key:**

- B - Positive result is considered to be an artifact of blank contamination and should not be considered present.
- J - Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
- K - Positive result is considered biased high due to exceedance of technical quality control criteria.
- L - Positive result is considered biased low due to exceedance of technical quality control criteria.
- U - Value is a non-detected result as reported by the laboratory.
- UL - Non-detected result is considered biased low due to exceedance of technical quality control criteria.
- UR - Non-detected result is considered unusable due to exceedance of technical quality control criteria.

**Qualifier Codes:**

- a = Lab Blank Contamination
- b = Field Blank Contamination
- c = Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- d = MS/MSD Noncompliance
- e = LSC/LSCD Noncompliance
- f = Laboratory Duplicate Imprecision
- g = Field Duplicate Imprecision
- h = Holding Time Exceedance
- i = ICP Serial Dilution Noncompliance
- j = GFAA PDS – GFAA MSA's  $r < 0.995$  (correlation coefficient)
- k = ICP Interference – include ICSAB %Rs
- l = Instrument Calibration Range Exceedance
- m = Sample Preservation
- n = Internal Standard Noncompliance
- o = Poor Instrument Performance (i.e. baseline drifting)
- p = Uncertainty Near Detection Limit ( $< 2 \times IDL$  for inorganics and  $< CRQL$  for organics)
- q = Other Problems (can encompass of number of issues)
- r = Surrogates Recovery Noncompliance
- s = Pesticide/PCB Resolution
- t = % Breakdown Noncompliance for DDT and Endrin
- u = Pesticide/PCB % Difference Between Columns for Positive Results
- v = Non-linear Calibrations, Tuning  $r < 0.995$  (correlation coefficient)

**APPENDIX B**  
**Laboratory Analytical Results**

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC/MS Volatiles

Lot-Sample #....:	C7E030139-002	Work Order #....:	JV6L01AM	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7130078
Prep Date.....:	05/10/07	Analysis Date...:	05/10/07		
Prep Batch #....:	7130081	Analysis Time...:	12:11		
Dilution Factor:	0.84	Initial Wgt/Vol:	5.93 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	18	Analyst ID. ....:	010099	Instrument ID..:	HP4
		Method. ....:	SW846 8260B		

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	5.1	ug/kg	1.2
Chlorodibromomethane	ND	5.1	ug/kg	0.95
o-Xylene	ND	5.1	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.5
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1.1
Acetone	ND	20	ug/kg	1.2
Benzene	ND	5.1	ug/kg	1.1
Bromodichloromethane	ND	5.1	ug/kg	0.99
Bromoform	ND	5.1	ug/kg	1.0
Bromomethane	ND	5.1	ug/kg	1.3
2-Butanone	ND	5.1	ug/kg	0.99
Carbon disulfide	ND	5.1	ug/kg	1.3
Carbon tetrachloride	ND	5.1	ug/kg	0.91
Chlorobenzene	ND	5.1	ug/kg	1.1
Chloroethane	ND	5.1	ug/kg	1.5
Chloroform	ND	5.1	ug/kg	1.1
Chloromethane	ND	5.1	ug/kg	1.1
Cyclohexane	ND	5.1	ug/kg	1.0
1,2-Dibromo-3-chloropropane	ND	5.1	ug/kg	0.86
1,2-Dibromoethane	ND	5.1	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,2-Dichlorobenzene	ND	5.1	ug/kg	1.1
Dichlorodifluoromethane	ND	5.1	ug/kg	1.3
1,1-Dichloroethane	ND	5.1	ug/kg	1.0
1,2-Dichloroethane	ND	5.1	ug/kg	1.1
1,1-Dichloroethene	ND	5.1	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1.2
1,2-Dichloropropane	ND	5.1	ug/kg	1.1
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.92
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.89
Ethylbenzene	ND	5.1	ug/kg	1.2
2-Hexanone	ND	5.1	ug/kg	0.81
Isopropylbenzene	ND	5.1	ug/kg	1.1
Methyl acetate	ND	5.1	ug/kg	1.1

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC/MS Volatiles

Lot-Sample #....: C7E030139-002 Work Order #....: JV6L01AM Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	1.9 J,B	5.1	ug/kg	0.78
Methylcyclohexane	ND	5.1	ug/kg	1.1
4-Methyl-2-pentanone	ND	5.1	ug/kg	0.89
Methyl tert-butyl ether	ND	5.1	ug/kg	0.95
Styrene	ND	5.1	ug/kg	1.1
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1.2
1,2,4-Trichloro- benzene	ND	5.1	ug/kg	1.1
Tetrachloroethene	ND	5.1	ug/kg	1.3
1,1,1-Trichloroethane	ND	5.1	ug/kg	1.0
1,1,2-Trichloroethane	ND	5.1	ug/kg	1.1
Trichloroethene	ND	5.1	ug/kg	1.1
Trichlorofluoromethane	ND	5.1	ug/kg	1.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.1	ug/kg	1.3
Toluene	ND	5.1	ug/kg	0.81
Vinyl chloride	ND	5.1	ug/kg	1.1
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
		(70 - 130)		
1,2-Dichloroethane-d4	87	(85 - 115)		
Toluene-d8	99	(85 - 120)		
4-Bromofluorobenzene	95	(70 - 130)		
Dibromofluoromethane	90			

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**Tetra Tech NUS, Inc**

**Client Sample ID: 03TP07-0304-01**

**GC/MS Volatiles**

<b>Lot-Sample #....:</b>	C7E030139-001	<b>Work Order #....:</b>	JV6LP1AC	<b>Matrix.....:</b>	SOLID
<b>Date Sampled....:</b>	05/02/07	<b>Date Received...:</b>	05/03/07	<b>MS Run #.....:</b>	7130078
<b>Prep Date.....:</b>	05/10/07	<b>Analysis Date...:</b>	05/10/07		
<b>Prep Batch #....:</b>	7130081	<b>Analysis Time...:</b>	11:48		
<b>Dilution Factor:</b>	0.84	<b>Initial Wgt/Vol:</b>	5.93 g	<b>Final Wgt/Vol..:</b>	5 mL
<b>% Moisture.....:</b>	17	<b>Analyst ID.....:</b>	010099	<b>Instrument ID..:</b>	HP4
		<b>Method.....:</b>	SW846 8260B		

<b>PARAMETER</b>	<b>RESULT</b>	<b>REPORTING</b>		
		<b>LIMIT</b>	<b>UNITS</b>	<b>MDL</b>
Bromochloromethane	ND	5.1	ug/kg	1.2
Chlorodibromomethane	ND	5.1	ug/kg	0.94
o-Xylene	ND	5.1	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.5
1,2,3-Trichlorobenzene	ND	5.1	ug/kg	1.1
Aceton	ND	20	ug/kg	1.2
Benzene	ND	5.1	ug/kg	1.1
Bromodichloromethane	ND	5.1	ug/kg	0.99
Bromoform	ND	5.1	ug/kg	1.0
Bromomethane	ND	5.1	ug/kg	1.3
2-Butanone	ND	5.1	ug/kg	0.98
Carbon disulfide	ND	5.1	ug/kg	1.2
Carbon tetrachloride	ND	5.1	ug/kg	0.90
Chlorobenzene	ND	5.1	ug/kg	1.1
Chloroethane	ND	5.1	ug/kg	1.5
Chloroform	ND	5.1	ug/kg	1.1
Chloromethane	ND	5.1	ug/kg	1.1
Cyclohexane	ND	5.1	ug/kg	1.0
1,2-Dibromo-3-chloropropane	ND	5.1	ug/kg	0.85
1,2-Dibromoethane	ND	5.1	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.1	ug/kg	1.1
1,2-Dichlorobenzene	ND	5.1	ug/kg	1.1
Dichlorodifluoromethane	ND	5.1	ug/kg	1.3
1,1-Dichloroethane	ND	5.1	ug/kg	0.99
1,2-Dichloroethane	ND	5.1	ug/kg	1.1
1,1-Dichloroethene	ND	5.1	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.1	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.1	ug/kg	1.2
1,2-Dichloropropane	ND	5.1	ug/kg	1.1
cis-1,3-Dichloropropene	ND	5.1	ug/kg	0.91
trans-1,3-Dichloropropene	ND	5.1	ug/kg	0.88
Ethylbenzene	ND	5.1	ug/kg	1.2
2-Hexanone	ND	5.1	ug/kg	0.80
Isopropylbenzene	ND	5.1	ug/kg	1.1
Methyl acetate	ND	5.1	ug/kg	1.1

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

## GC/MS Volatiles

Lot-Sample #....: C7E030139-001 Work Order #....: JV6LP1AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>MDL</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Methylene chloride	1.9 J,B	5.1	ug/kg	0.78
Methylcyclohexane	ND	5.1	ug/kg	1.1
4-Methyl-2-pentanone	ND	5.1	ug/kg	0.88
Methyl tert-butyl ether	ND	5.1	ug/kg	0.94
Styrene	ND	5.1	ug/kg	1.1
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	1.1
1,2,4-Trichloro- benzene	ND	5.1	ug/kg	1.0
Tetrachloroethene	ND	5.1	ug/kg	1.3
1,1,1-Trichloroethane	ND	5.1	ug/kg	1.0
1,1,2-Trichloroethane	ND	5.1	ug/kg	1.1
Trichloroethene	ND	5.1	ug/kg	1.1
Trichlorofluoromethane	ND	5.1	ug/kg	1.6
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.1	ug/kg	1.2
Toluene	ND	5.1	ug/kg	0.80
Vinyl chloride	ND	5.1	ug/kg	1.1
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>	
1,2-Dichloroethane-d4	88		(70 - 130)	
Toluene-d8	100		(85 - 115)	
4-Bromofluorobenzene	97		(85 - 120)	
Dibromofluoromethane	91		(70 - 130)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J : Estimated: The analyte was positively identified; the quantitation is estimated.

B : Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

## GC/MS Volatiles

Lot-Sample #....:	C7E030139-005	Work Order #....:	JV6L81AM	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7130078
Prep Date.....:	05/10/07	Analysis Date...:	05/10/07		
Prep Batch #....:	7130081	Analysis Time...:	13:22		
Dilution Factor:	1.06	Initial Wgt/Vol:	4.72 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	29	Analyst ID.....:	010099	Instrument ID..:	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	7.5	ug/kg	1.8
Chlorodibromomethane	ND	7.5	ug/kg	1.4
o-Xylene	ND	7.5	ug/kg	1.6
m-Xylene & p-Xylene	ND	15	ug/kg	3.7
1,2,3-Trichlorobenzene	ND	7.5	ug/kg	1.7
Acetone	ND	30	ug/kg	1.8
Benzene	ND	7.5	ug/kg	1.6
Bromodichloromethane	ND	7.5	ug/kg	1.5
Bromoform	ND	7.5	ug/kg	1.5
Bromomethane	ND	7.5	ug/kg	1.9
2-Butanone	ND	7.5	ug/kg	1.5
Carbon disulfide	ND	7.5	ug/kg	1.8
Carbon tetrachloride	ND	7.5	ug/kg	1.3
Chlorobenzene	ND	7.5	ug/kg	1.7
Chloroethane	ND	7.5	ug/kg	2.2
Chloroform	ND	7.5	ug/kg	1.6
Chloromethane	ND	7.5	ug/kg	1.7
Cyclohexane	ND	7.5	ug/kg	1.5
1,2-Dibromo-3-chloropropane	ND	7.5	ug/kg	1.3
1,2-Dibromoethane	ND	7.5	ug/kg	1.6
1,3-Dichlorobenzene	ND	7.5	ug/kg	1.6
1,4-Dichlorobenzene	ND	7.5	ug/kg	1.7
1,2-Dichlorobenzene	ND	7.5	ug/kg	1.6
Dichlorodifluoromethane	ND	7.5	ug/kg	1.9
1,1-Dichloroethane	ND	7.5	ug/kg	1.5
1,2-Dichloroethane	ND	7.5	ug/kg	1.6
1,1-Dichloroethene	ND	7.5	ug/kg	1.8
cis-1,2-Dichloroethene	ND	7.5	ug/kg	1.6
trans-1,2-Dichloroethene	ND	7.5	ug/kg	1.7
1,2-Dichloropropane	ND	7.5	ug/kg	1.7
cis-1,3-Dichloropropene	ND	7.5	ug/kg	1.3
trans-1,3-Dichloropropene	ND	7.5	ug/kg	1.3
Ethylbenzene	ND	7.5	ug/kg	1.8
2-Hexanone	ND	7.5	ug/kg	1.2
Isopropylbenzene	ND	7.5	ug/kg	1.6
Methyl acetate	ND	7.5	ug/kg	1.6

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

## GC/MS Volatiles

Lot-Sample #....: C7E030139-005 Work Order #....: JV6L81AM Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>MDL</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Methylene chloride	2.6 J,B	7.5	ug/kg	1.1
Methylcyclohexane	ND	7.5	ug/kg	1.7
4-Methyl-2-pentanone	ND	7.5	ug/kg	1.3
Methyl tert-butyl ether	ND	7.5	ug/kg	1.4
Styrene	ND	7.5	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	7.5	ug/kg	1.7
1,2,4-Trichloro- benzene	ND	7.5	ug/kg	1.5
Tetrachloroethene	ND	7.5	ug/kg	1.9
1,1,1-Trichloroethane	ND	7.5	ug/kg	1.5
1,1,2-Trichloroethane	ND	7.5	ug/kg	1.6
Trichloroethene	ND	7.5	ug/kg	1.7
Trichlorofluoromethane	ND	7.5	ug/kg	2.4
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	7.5	ug/kg	1.8
Toluene	ND	7.5	ug/kg	1.2
Vinyl chloride	ND	7.5	ug/kg	1.7

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
		(70 - 130)	(85 - 115)
1,2-Dichloroethane-d4	93		
Toluene-d8	110		
4-Bromofluorobenzene	85		
Dibromofluoromethane	97	(70 - 130)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

## GC/MS Volatiles

Lot-Sample #....: C7E030139-004      Work Order #....: JV6L61AM      Matrix.....: SOLID  
 Date Sampled....: 05/02/07      Date Received...: 05/03/07      MS Run #.....: 7130078  
 Prep Date.....: 05/10/07      Analysis Date...: 05/10/07  
 Prep Batch #....: 7130081      Analysis Time...: 12:59  
 Dilution Factor: 0.89      Initial Wgt/Vol: 5.6 g      Final Wgt/Vol...: 5 mL  
 % Moisture.....: 17      Analyst ID.....: 010099      Instrument ID...: HP4  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.4	ug/kg	1.3
Chlorodibromomethane	ND	5.4	ug/kg	0.99
o-Xylene	ND	5.4	ug/kg	1.1
m-Xylene & p-Xylene	ND	11	ug/kg	2.7
1,2,3-Trichlorobenzene	ND	5.4	ug/kg	1.2
Acetone	ND	21	ug/kg	1.3
Benzene	ND	5.4	ug/kg	1.1
Bromodichloromethane	ND	5.4	ug/kg	1.0
Bromoform	ND	5.4	ug/kg	1.1
Bromomethane	ND	5.4	ug/kg	1.4
2-Butanone	ND	5.4	ug/kg	1.0
Carbon disulfide	ND	5.4	ug/kg	1.3
Carbon tetrachloride	ND	5.4	ug/kg	0.95
Chlorobenzene	ND	5.4	ug/kg	1.2
Chloroethane	ND	5.4	ug/kg	1.5
Chloroform	ND	5.4	ug/kg	1.1
Chloromethane	ND	5.4	ug/kg	1.2
Cyclohexane	ND	5.4	ug/kg	1.1
1,2-Dibromo-3-chloropropane	ND	5.4	ug/kg	0.90
1,2-Dibromoethane	ND	5.4	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.4	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.4	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.4	ug/kg	1.2
Dichlorodifluoromethane	ND	5.4	ug/kg	1.4
1,1-Dichloroethane	ND	5.4	ug/kg	1.0
1,2-Dichloroethane	ND	5.4	ug/kg	1.2
1,1-Dichloroethene	ND	5.4	ug/kg	1.3
cis-1,2-Dichloroethene	ND	5.4	ug/kg	1.2
trans-1,2-Dichloroethene	ND	5.4	ug/kg	1.2
1,2-Dichloropropane	ND	5.4	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.4	ug/kg	0.96
trans-1,3-Dichloropropene	ND	5.4	ug/kg	0.93
Ethylbenzene	ND	5.4	ug/kg	1.3
2-Hexanone	ND	5.4	ug/kg	0.85
Isopropylbenzene	ND	5.4	ug/kg	1.1
Methyl acetate	ND	5.4	ug/kg	1.1

(Continued on next page)

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

## GC/MS Volatiles

Lot-Sample #....: C7E030139-004 Work Order #....: JV6L61AM Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	2.8 J,B	5.4	ug/kg	0.82
Methylcyclohexane	ND	5.4	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.4	ug/kg	0.93
Methyl tert-butyl ether	ND	5.4	ug/kg	0.99
Styrene	ND	5.4	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.4	ug/kg	1.1
Tetrachloroethene	ND	5.4	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.4	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.4	ug/kg	1.1
Trichloroethene	ND	5.4	ug/kg	1.2
Trichlorofluoromethane	ND	5.4	ug/kg	1.2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.4	ug/kg	1.7
Toluene	ND	5.4	ug/kg	0.85
Vinyl chloride	ND	5.4	ug/kg	1.2
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	84	(70 - 130)		
Toluene-d8	96	(85 - 115)		
4-Bromofluorobenzene	93	(85 - 120)		
Dibromofluoromethane	88	(70 - 130)		

## NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC/MS Volatiles

Lot-Sample #....: C7E030139-003    Work Order #....: JV6L51AM    Matrix.....: SOLID  
 Date Sampled....: 05/02/07    Date Received...: 05/03/07    MS Run #.....: 7130078  
 Prep Date.....: 05/10/07    Analysis Date...: 05/10/07  
 Prep Batch #....: 7130081    Analysis Time...: 12:35  
 Dilution Factor: 0.9    Initial Wgt/Vol: 5.54 g    Final Wgt/Vol...: 5 mL  
 % Moisture.....: 27    Analyst ID.....: 010099    Instrument ID...: HP4  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	6.1	ug/kg	1.5
Chlorodibromomethane	ND	6.1	ug/kg	1.1
o-Xylene	ND	6.1	ug/kg	1.3
m-Xylene & p-Xylene	ND	12	ug/kg	3.0
1, 2, 3-Trichlorobenzene	ND	6.1	ug/kg	1.4
Acetone	ND	25	ug/kg	1.5
Benzene	ND	6.1	ug/kg	1.3
Bromodichloromethane	ND	6.1	ug/kg	1.2
Bromoform	ND	6.1	ug/kg	1.2
Bromomethane	ND	6.1	ug/kg	1.6
2-Butanone	ND	6.1	ug/kg	1.2
Carbon disulfide	ND	6.1	ug/kg	1.5
Carbon tetrachloride	ND	6.1	ug/kg	1.1
Chlorobenzene	ND	6.1	ug/kg	1.4
Chloroethane	ND	6.1	ug/kg	1.8
Chloroform	ND	6.1	ug/kg	1.3
Chloromethane	ND	6.1	ug/kg	1.4
Cyclohexane	ND	6.1	ug/kg	1.2
1, 2-Dibromo-3-chloropropane	ND	6.1	ug/kg	1.0
1, 2-Dibromoethane	ND	6.1	ug/kg	1.3
1, 3-Dichlorobenzene	ND	6.1	ug/kg	1.3
1, 4-Dichlorobenzene	ND	6.1	ug/kg	1.4
1, 2-Dichlorobenzene	ND	6.1	ug/kg	1.4
Dichlorodifluoromethane	ND	6.1	ug/kg	1.6
1, 1-Dichloroethane	ND	6.1	ug/kg	1.6
1, 2-Dichloroethane	ND	6.1	ug/kg	1.2
1, 1-Dichloroethene	ND	6.1	ug/kg	1.3
cis-1, 2-Dichloroethene	ND	6.1	ug/kg	1.4
trans-1, 2-Dichloroethene	ND	6.1	ug/kg	1.3
1, 2-Dichloropropane	ND	6.1	ug/kg	1.4
cis-1, 3-Dichloropropene	ND	6.1	ug/kg	1.1
trans-1, 3-Dichloropropene	ND	6.1	ug/kg	1.1
Ethylbenzene	ND	6.1	ug/kg	1.4
2-Hexanone	ND	6.1	ug/kg	0.97
Isopropylbenzene	ND	6.1	ug/kg	1.3
Methyl acetate	ND	6.1	ug/kg	1.3

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC/MS Volatiles

Lot-Sample #....: C7E030139-003 Work Order #....: JV6L51AM Matrix.....: SOLID

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	MDL
Methylene chloride	2.7 J,B	6.1	ug/kg	0.94
Methylcyclohexane	ND	6.1	ug/kg	1.4
4-Methyl-2-pentanone	ND	6.1	ug/kg	1.1
Methyl tert-butyl ether	ND	6.1	ug/kg	1.1
Styrene	ND	6.1	ug/kg	1.4
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1.4
1,2,4-Trichloro-benzene	ND	6.1	ug/kg	1.3
Tetrachloroethene	ND	6.1	ug/kg	1.6
1,1,1-Trichloroethane	ND	6.1	ug/kg	1.2
1,1,2-Trichloroethane	ND	6.1	ug/kg	1.3
Trichloroethene	ND	6.1	ug/kg	1.4
Trichlorofluoromethane	ND	6.1	ug/kg	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.1	ug/kg	1.5
Toluene	ND	6.1	ug/kg	0.97
Vinyl chloride	ND	6.1	ug/kg	1.4
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
1,2-Dichloroethane-d4	92		(70 - 130)	
Tolu ne-d8	107		(85 - 115)	
4-Bromofluorobenzene	92		(85 - 120)	
Dibromofluoromethane	95		(70 - 130)	

## NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## Tetra Tech NUS, Inc

Client Sample ID: 03TB-03

## GC/MS Volatiles

Lot-Sample #....: C7E030139-006      Work Order #....: JV6MA1AA      Matrix.....: WATER  
 Date Sampled....: 05/02/07      Date Received...: 05/03/07      MS Run #.....: 7136324  
 Prep Date.....: 05/16/07      Analysis Date...: 05/16/07  
 Prep Batch #....: 7136629      Analysis Time...: 19:34  
 Dilution Factor: 1      Initial Wgt/Vol: 5 mL      Final Wgt/Vol...: 5 mL  
 Analyst ID.....: 402467      Instrument ID...: HP7  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chlorodibromomethane	ND	5.0	ug/L	0.50
o-Xylene	ND	5.0	ug/L	0.89
m-Xylene & p-Xylene	ND	10	ug/L	1.6
1,2,3-Trichlorobenzene	ND	5.0	ug/L	0.33
Bromochloromethane	ND	5.0	ug/L	0.96
Acetone	ND	20	ug/L	0.83
Benzene	ND	5.0	ug/L	0.81
Bromodichloromethane	ND	5.0	ug/L	0.58
Bromoform	ND	5.0	ug/L	0.37
Bromomethane	ND	5.0	ug/L	0.75
2-Butanone	ND	5.0	ug/L	0.73
Carbon disulfide	ND	5.0	ug/L	1.1
Carbon tetrachloride	ND	5.0	ug/L	0.91
Chlorobenzene	ND	5.0	ug/L	0.71
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.78
Chloromethane	ND	5.0	ug/L	0.87
Cyclohexane	ND	5.0	ug/L	1.1
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.3
1,2-Dibromoethane	ND	5.0	ug/L	0.64
1,3-Dichlorobenzene	ND	5.0	ug/L	0.66
1,4-Dichlorobenzene	ND	5.0	ug/L	0.60
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.64
1,1-Dichloroethene	ND	5.0	ug/L	0.87
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.90
1,2-Dichloropropane	ND	5.0	ug/L	0.67
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.79
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.57
Ethylbenzene	ND	5.0	ug/L	0.58
2-Hexanone	ND	5.0	ug/L	0.45
Isopropylbenzene	ND	5.0	ug/L	0.72
Methyl acetate	ND	5.0	ug/L	0.47

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Tetra Tech NUS, Inc

Client Sample ID: 03TB-03

GC/MS Volatiles

Lot-Sample #....: C7E030139-006 Work Order #....: JV6MA1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	ND	5.0	ug/L	0.75
Methylcyclohexane	ND	5.0	ug/L	1.1
4-Methyl-2-pentanone	ND	5.0	ug/L	0.46
Methyl tert-butyl ether	ND	5.0	ug/L	0.77
Styrene	ND	5.0	ug/L	0.80
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.63
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.42
Tetrachloroethene	ND	5.0	ug/L	0.57
1,1,1-Trichloroethane	ND	5.0	ug/L	0.79
1,1,2-Trichloroethane	ND	5.0	ug/L	0.79
Trichloroethene	ND	5.0	ug/L	0.88
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.0	ug/L	1.2
Toluene	ND	5.0	ug/L	0.80
Vinyl chloride	ND	5.0	ug/L	0.94
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	107	(70 - 120)		
Toluene-d8	99	(85 - 120)		
4-Bromofluorobenzene	99	(75 - 120)		
Dibromofluoromethane	111	(85 - 115)		

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-002 Work Order #....: JV6L01AN Matrix.....: SOLID  
 Date Sampled....: 05/02/07 09:35 Date Received...: 05/03/07 09:20 MS Run #.....: 7127006  
 Prep Date.....: 05/07/07 Analysis Date...: 05/25/07  
 Prep Batch #....: 7127015 Analysis Time...: 16:42  
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL  
 % Moisture.....: 18 Analyst ID.....: 007062 Instrument ID...: 722  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	400	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	32
Acenaphthylene	ND	400	ug/kg	37
Acetophenone	ND	400	ug/kg	60
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	58
Benzo(a)anthracene	ND	400	ug/kg	40
Benzo(a)pyrene	ND	400	ug/kg	37
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	52
Benzaldehyde	ND	400	ug/kg	83
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy)-methane	ND	400	ug/kg	45
bis(2-Chloroethyl)-ether	ND	400	ug/kg	46
bis(2-Ethylhexyl)-phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	43
Caprolactam	ND	400	ug/kg	58
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Chloronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	27
Dibenzofuran	ND	400	ug/kg	38
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

(Continued on next page)

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-002 Work Order #....: JV6L01AN Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	35
Dimethyl phthalate	ND	400	ug/kg	33
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	26
2,4-Dinitrophenol	ND	1900	ug/kg	610
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	37
Fluor ne	ND	400	ug/kg	35
Hexachlorobenzene	ND	400	ug/kg	33
Hexachlorobutadiene	ND	400	ug/kg	55
Hexachlorocyclopenta- diene	ND	1900	ug/kg	27
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	53
2-Methylnaphthalene	ND	400	ug/kg	42
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	90
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	38
3-Nitroaniline	ND	1900	ug/kg	38
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	55
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg	40
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	66
P ntachlorophenol	ND	1900	ug/kg	28
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	ND	400	ug/kg	44
2,4,5-Trichloro- phenol	ND	400	ug/kg	39
2,4,6-Trichloro- phenol	ND	400	ug/kg	28

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Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

GC/MS Semivolatiles

Lot-Sample #....: C7E030139-002 Work Order #....: JV6L01AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	50	(45 - 105)
2-Fluorophenol	48	(35 - 105)
Phenol-d5	45	(40 - 100)
2,4,6-Tribromophenol	51	(35 - 125)
Nitrobenzene-d5	49	(35 - 100)
Terphenyl-d14	71	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-001 Work Order #....: JV6LP1AD Matrix.....: SOLID  
 Date Sampled....: 05/02/07 09:05 Date Received...: 05/03/07 09:20 MS Run #.....: 7127006  
 Prep Date.....: 05/07/07 Analysis Date...: 05/25/07  
 Prep Batch #....: 7127015 Analysis Time...: 16:13  
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL  
 % Moisture.....: 17 Analyst ID.....: 007062 Instrument ID...: 722  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	400	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	31
Acenaphthylene	ND	400	ug/kg	37
Acetophenone	ND	400	ug/kg	60
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	57
Benzo(a)anthracene	ND	400	ug/kg	40
Benzo(a)pyrene	ND	400	ug/kg	36
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	52
Benzaldehyde	ND	400	ug/kg	82
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy)-methane	ND	400	ug/kg	45
bis(2-Chloroethyl)-ether	ND	400	ug/kg	46
bis(2-Ethylhexyl)-phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	43
Caprolactam	ND	400	ug/kg	58
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Chloronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	27
Dibenzofuran	ND	400	ug/kg	38
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-001 Work Order #....: JV6LP1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	35
Dimethyl phthalate	ND	400	ug/kg	32
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro-	ND	1900	ug/kg	26
2-methylphenol				
2,4-Dinitrophenol	ND	1900	ug/kg	600
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	37
Fluorene	ND	400	ug/kg	35
Hexachlorobenzene	ND	400	ug/kg	33
Hexachlorobutadiene	ND	400	ug/kg	55
Hexachlorocyclopenta-	ND	1900	ug/kg	27
diene				
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	52
2-Methylnaphthalene	ND	400	ug/kg	41
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	90
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	37
3-Nitroaniline	ND	1900	ug/kg	37
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	55
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propyl-	ND	400	ug/kg	40
amine				
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	65
Pentachlorophenol	ND	1900	ug/kg	27
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	ND	400	ug/kg	43
2,4,5-Trichloro-	ND	400	ug/kg	38
phenol				
2,4,6-Trichloro-	ND	400	ug/kg	28
phenol				

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Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E030139-001 Work Order #....: JV6LP1AD Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	55	(45 - 105)
2-Fluorophenol	54	(35 - 105)
Phenol-d5	50	(40 - 100)
2,4,6-Tribromophenol	59	(35 - 125)
Nitrobenzene-d5	52	(35 - 100)
Terphenyl-d14	77	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech MUS, Inc

Client Sample ID: 03TP08-0203-03

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-005 Work Order #....: JV6L81AN Matrix.....: SOLID  
 Date Sampled....: 05/02/07 13:50 Date Received...: 05/03/07 09:20 MS Run #.....: 7127006  
 Prep Date.....: 05/07/07 Analysis Date...: 05/28/07  
 Prep Batch #....: 7127015 Analysis Time...: 13:08  
 Dilution Factor: 2 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL  
 % Moisture.....: 29 Analyst ID.....: 007062 Instrument ID...: 722  
 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,2,4,5-Tetrachloro-benzene	ND	930	ug/kg	55
2,3,4,6-Tetrachlorophenol	ND	930	ug/kg	66
Acenaphthene	ND	930	ug/kg	74
Acenaphthylene	ND	930	ug/kg	85
Acetophenone	ND	930	ug/kg	140
Anthracene	ND	930	ug/kg	89
Atrazine	ND	930	ug/kg	130
Benzo(a)anthracene	ND	930	ug/kg	93
Benzo(a)pyrene	ND	930	ug/kg	85
Benzo(b)fluoranthene	ND	930	ug/kg	130
Benzo(ghi)perylene	ND	930	ug/kg	81
Benzo(k)fluoranthene	ND	930	ug/kg	120
Benzaldehyde	ND	930	ug/kg	190
1,1'-Biphenyl	ND	930	ug/kg	110
bis(2-Chloroethoxy)-methane	ND	930	ug/kg	110
bis(2-Chloroethyl)-ether	ND	930	ug/kg	110
bis(2-Ethylhexyl)phthalate	390 J	930	ug/kg	91
4-Bromophenyl phenyl ether	ND	930	ug/kg	78
Butyl benzyl phthalate	ND	930	ug/kg	100
Caprolactam	ND	930	ug/kg	130
Carbazole	ND	930	ug/kg	82
4-Chloroaniline	ND	930	ug/kg	63
4-Chloro-3-methylphenol	ND	930	ug/kg	79
2-Chloronaphthalene	ND	930	ug/kg	84
2-Chlorophenol	ND	930	ug/kg	160
4-Chlorophenyl phenyl ether	ND	930	ug/kg	65
Chrysene	ND	930	ug/kg	91
Dibenz(a,h)anthracene	ND	930	ug/kg	62
Dibenzofuran	ND	930	ug/kg	88
3,3'-Dichlorobenzidine	ND	4500	ug/kg	56
2,4-Dichlorophenol	ND	930	ug/kg	98

(Continued on next page)

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

## GC/MS Semivolatiles

Lot-Sample #...: C7E030139-005 Work Order #...: JV6L81AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Diethyl phthalate	ND	930	ug/kg	86
2,4-Dimethylphenol	ND	930	ug/kg	81
Dimethyl phthalate	ND	930	ug/kg	76
Di-n-butyl phthalate	ND	930	ug/kg	84
4,6-Dinitro- 2-methylphenol	ND	4500	ug/kg	60
2,4-Dinitrophenol	ND	4500	ug/kg	1400
2,4-Dinitrotoluene	ND	930	ug/kg	84
2,6-Dinitrotoluene	ND	930	ug/kg	70
Di-n-octyl phthalate	ND	930	ug/kg	81
Fluoranthene	ND	930	ug/kg	87
Fluorene	ND	930	ug/kg	81
Hexachlorobenzene	ND	930	ug/kg	76
Hexachlorobutadiene	ND	930	ug/kg	130
Hexachlorocyclopenta- diene	ND	4500	ug/kg	63
Hexachloroethane	ND	930	ug/kg	130
Indeno(1,2,3-cd)pyrene	ND	930	ug/kg	66
Isophorone	ND	930	ug/kg	120
2-Methylnaphthalene	ND	930	ug/kg	97
2-Methylphenol	ND	930	ug/kg	140
4-Methylphenol	ND	930	ug/kg	210
Naphthalene	ND	930	ug/kg	96
2-Nitroaniline	ND	4500	ug/kg	87
3-Nitroaniline	ND	4500	ug/kg	87
4-Nitroaniline	ND	4500	ug/kg	54
Nitrobenzene	ND	930	ug/kg	120
2-Nitrophenol	ND	930	ug/kg	130
4-Nitrophenol	ND	4500	ug/kg	65
N-Nitrosodi-n-propyl- amine	ND	930	ug/kg	94
N-Nitrosodiphenylamine	ND	930	ug/kg	100
2,2'-oxybis(1-Chloropropane)	ND	930	ug/kg	150
Pentachlorophenol	ND	4500	ug/kg	64
Phenanthrene	ND	930	ug/kg	89
Phenol	ND	930	ug/kg	100
Pyrene	ND	930	ug/kg	100
2,4,5-Trichloro- phenol	ND	930	ug/kg	90
2,4,6-Trichloro- phenol	ND	930	ug/kg	65

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

GC/MS Semivolatiles

Lot-Sample #....: C7E030139-005 Work Order #....: JV6L81AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	60	(45 - 105)
2-Fluorophenol	54	(35 - 105)
Phenol-d5	51	(40 - 100)
2,4,6-Tribromophenol	58	(35 - 125)
Nitrobenzene-d5	55	(35 - 100)
Terphenyl-d14	64	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-004 Work Order #....: JV6L61AN Matrix.....: SOLID  
 Date Sampled....: 05/02/07 12:50 Date Received...: 05/03/07 09:20 MS Run #.....: 7127006  
 Prep Date.....: 05/07/07 Analysis Date...: 05/25/07  
 Prep Batch #....: 7127015 Analysis Time...: 17:39  
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL  
 % Moisture.....: 17 Analyst ID.....: 007062 Instrument ID...: 722  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	400	ug/kg	23
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	31
Acenaphthylene	ND	400	ug/kg	36
Acetophenone	ND	400	ug/kg	59
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	57
Benzo(a)anthracene	ND	400	ug/kg	39
Benzo(a)pyrene	ND	400	ug/kg	36
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	51
Benzaldehyde	ND	400	ug/kg	82
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy) methane	ND	400	ug/kg	45
bis(2-Chloroethyl)- ether	ND	400	ug/kg	45
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	42
Caprolactam	ND	400	ug/kg	57
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Chloronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	26
Dibenzofuran	ND	400	ug/kg	37
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

(Continued on next page)

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-004 Work Order #....: JV6L61AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	34
Dimethyl phthalate	ND	400	ug/kg	32
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	26
2,4-Dinitrophenol	ND	1900	ug/kg	600
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	37
Fluorene	ND	400	ug/kg	35
Hexachlorobenzene	ND	400	ug/kg	33
Hexachlorobutadiene	ND	400	ug/kg	55
Hexachlorocyclopenta- diene	ND	1900	ug/kg	27
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	52
2-Methylnaphthalene	ND	400	ug/kg	41
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	89
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	37
3-Nitroaniline	ND	1900	ug/kg	37
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	54
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg	40
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	65
Pentachlorophenol	ND	1900	ug/kg	27
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	ND	400	ug/kg	43
2,4,5-Trichloro- phenol	ND	400	ug/kg	38
2,4,6-Trichloro- phenol	ND	400	ug/kg	28

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

GC/MS Semivolatiles

Lot-Sample #....: C7E030139-004 Work Order #....: JV6L61AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	53	(45 - 105)
2-Fluorophenol	49	(35 - 105)
Phenol-d5	48	(40 - 100)
2,4,6-Tribromophenol	57	(35 - 125)
Nitrobenzene-d5	50	(35 - 100)
Terphenyl-d14	76	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-003 Work Order #....: JV6L51AN Matrix.....: SOLID  
 Date Sampled....: 05/02/07 11:15 Date Received...: 05/03/07 09:20 MS Run #.....: 7127006  
 Prep Date.....: 05/07/07 Analysis Date...: 05/25/07  
 Prep Batch #....: 7127015 Analysis Time...: 17:10  
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL  
 % Moisture.....: 27 Analyst ID.....: 007062 Instrument ID...: 722  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1, 2, 4, 5-Tetrachloro- benzene	ND	450	ug/kg	27
2, 3, 4, 6-Tetrachlorophenol	ND	450	ug/kg	32
Acenaphthene	ND	450	ug/kg	36
Acenaphthylene	ND	450	ug/kg	41
Acetophenone	ND	450	ug/kg	67
Anthracene	ND	450	ug/kg	43
Atrazine	ND	450	ug/kg	65
Benzo(a)anthracene	93 J	450	ug/kg	45
Benzo(a)pyrene	62 J	450	ug/kg	41
Benzo(b)fluoranthene	61 J	450	ug/kg	61
Benzo(ghi)perylene	59 J	450	ug/kg	39
Benzo(k)fluoranthene	ND	450	ug/kg	58
Benzaldehyde	ND	450	ug/kg	93
1, 1'-Biphenyl	ND	450	ug/kg	52
bis(2-Chloroethoxy) methane	ND	450	ug/kg	51
bis(2-Chloroethyl)- ether	ND	450	ug/kg	52
bis(2-Ethylhexyl) phthalate	ND	450	ug/kg	44
4-Bromophenyl phenyl ether	ND	450	ug/kg	37
Butyl benzyl phthalate	ND	450	ug/kg	48
Caprolactam	ND	450	ug/kg	65
Carbazole	ND	450	ug/kg	40
4-Chloroaniline	ND	450	ug/kg	31
4-Chloro-3-methylphenol	ND	450	ug/kg	38
2-Chloronaphthalene	ND	450	ug/kg	40
2-Chlorophenol	ND	450	ug/kg	78
4-Chlorophenyl phenyl ether	ND	450	ug/kg	31
Chrysene	100 J	450	ug/kg	44
Dibenz(a, h)anthracene	ND	450	ug/kg	30
Dibenzofuran	ND	450	ug/kg	42
3, 3'-Dichlorobenzidine	ND	2200	ug/kg	27
2, 4-Dichlorophenol	ND	450	ug/kg	47

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## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC/MS Semivolatiles

Lot-Sample #....: C7E030139-003 Work Order #....: JV6L51AN Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diethyl phthalate	ND	450	ug/kg	41
2,4-Dimethylphenol	ND	450	ug/kg	39
Dimethyl phthalate	ND	450	ug/kg	37
Di-n-butyl phthalate	ND	450	ug/kg	40
4,6-Dinitro- 2-methylphenol	ND	2200	ug/kg	29
2,4-Dinitrophenol	ND	2200	ug/kg	680
2,4-Dinitrotoluene	ND	450	ug/kg	41
2,6-Dinitrotoluene	ND	450	ug/kg	34
Di-n-octyl phthalate	ND	450	ug/kg	39
Fluoranthene	160 J	450	ug/kg	42
Fluorene	ND	450	ug/kg	39
Hexachlorobenzene	ND	450	ug/kg	37
Hexachlorobutadiene	ND	450	ug/kg	62
Hexachlorocyclopenta- diene	ND	2200	ug/kg	30
Hexachloroethane	ND	450	ug/kg	62
Indeno(1,2,3-cd)pyrene	62 J	450	ug/kg	32
Isophorone	ND	450	ug/kg	59
2-Methylnaphthalene	ND	450	ug/kg	47
2-Methylphenol	ND	450	ug/kg	66
4-Methylphenol	ND	450	ug/kg	100
Naphthalene	ND	450	ug/kg	46
2-Nitroaniline	ND	2200	ug/kg	42
3-Nitroaniline	ND	2200	ug/kg	42
4-Nitroaniline	ND	2200	ug/kg	26
Nitrobenzene	ND	450	ug/kg	56
2-Nitrophenol	ND	450	ug/kg	62
4-Nitrophenol	ND	2200	ug/kg	31
N-Nitrosodi-n-propyl- amine	ND	450	ug/kg	45
N-Nitrosodiphenylamine	ND	450	ug/kg	50
2,2'-oxybis(1-Chloropropane)	ND	450	ug/kg	73
Pentachlorophenol	ND	2200	ug/kg	31
Phenanthrene	180 J	450	ug/kg	43
Phenol	ND	450	ug/kg	49
Pyrene	160 J	450	ug/kg	49
2,4,5-Trichloro- phenol	ND	450	ug/kg	43
2,4,6-Trichloro- phenol	ND	450	ug/kg	32

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

GC/MS Semivolatiles

Lot-Sample #....: C7E030139-003 Work Order #....: JV6L51AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	62	(45 - 105)
2-Fluorophenol	54	(35 - 105)
Phenol-d5	54	(40 - 100)
2,4,6-Tribromophenol	66	(35 - 125)
Nitrobenzene-d5	54	(35 - 100)
Terphenyl-d14	69	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC Semivolatiles

Lot-Sample #....:	C7E030139-002	Work Order #....:	JV6L01AP	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7128268
Prep Date.....:	05/08/07	Analysis Date...:	05/09/07		
Prep Batch #....:	7128422	Analysis Time...:	14:06		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	18	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.1	ug/kg	0.31
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.1	ug/kg	0.28
Heptachlor	ND	2.1	ug/kg	0.26
Aldrin	ND	2.1	ug/kg	0.22
Heptachlor epoxide	ND	2.1	ug/kg	0.20
Endosulfan I	ND	2.1	ug/kg	0.21
Dieldrin	ND	2.1	ug/kg	0.15
4,4'-DDE	ND	2.1	ug/kg	0.12
Endrin	ND	2.1	ug/kg	0.16
Endrin ketone	ND	2.1	ug/kg	0.24
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	ND	2.1	ug/kg	0.47
4,4'-DDD	ND	2.1	ug/kg	0.18
Endosulfan sulfate	ND	2.1	ug/kg	0.33
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	ND	4.0	ug/kg	0.84
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	ND	2.1	ug/kg	0.21
Toxaphene	ND	82	ug/kg	14

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	94	(70 - 125)	
Decachlorobiphenyl	95	(55 - 130)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

## GC Semivolatiles

Lot-Sample #....: C7E030139-001    Work Order #....: JV6LP1AE    Matrix.....: SOLID  
 Date Sampled....: 05/02/07    Date Received...: 05/03/07    MS Run #.....: 7128268  
 Prep Date.....: 05/08/07    Analysis Date...: 05/09/07  
 Prep Batch #....: 7128422    Analysis Time...: 13:49  
 Dilution Factor: 1    Initial Wgt/Vol: 15 g    Final Wgt/Vol..: 20 mL  
 % Moisture.....: 17    Analyst ID.....: 402331    Instrument ID..: G/H  
 Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.1	ug/kg	0.31
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.1	ug/kg	0.28
Heptachlor	ND	2.1	ug/kg	0.26
Aldrin	ND	2.1	ug/kg	0.21
Heptachlor epoxide	ND	2.1	ug/kg	0.20
Endosulfan I	ND	2.1	ug/kg	0.21
Dieldrin	ND	2.1	ug/kg	0.15
4,4'-DDE	ND	2.1	ug/kg	0.12
Endrin	ND	2.1	ug/kg	0.16
Endrin ketone	ND	2.1	ug/kg	0.23
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	0.71 J	2.1	ug/kg	0.46
4,4'-DDD	ND	2.1	ug/kg	0.18
Endosulfan sulfate	ND	2.1	ug/kg	0.33
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	ND	4.0	ug/kg	0.84
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	ND	2.1	ug/kg	0.21
Toxaphene	ND	81	ug/kg	14

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	91	(70 - 125)	
Decachlorobiphenyl	95	(55 - 130)	

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

## GC Semivolatiles

Lot-Sample #....: C7E030139-005    Work Order #....: JV6L81AP    Matrix.....: SOLID  
 Date Sampled....: 05/02/07    Date Received...: 05/03/07    MS Run #.....: 7128268  
 Prep Date.....: 05/08/07    Analysis Date...: 05/09/07  
 Prep Batch #....: 7128422    Analysis Time...: 14:57  
 Dilution Factor: 1    Initial Wgt/Vol: 15 g    Final Wgt/Vol...: 20 mL  
 % Moisture.....: 29    Analyst ID.....: 402331    Instrument ID...: G/H  
 Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.4	ug/kg	0.36
beta-BHC	ND	2.4	ug/kg	0.28
delta-BHC	0.55 J, PG	2.4	ug/kg	0.25
gamma-BHC (Lindane)	0.99 J	2.4	ug/kg	0.33
Heptachlor	0.52 J, PG	2.4	ug/kg	0.30
Aldrin	2.3 J	2.4	ug/kg	0.25
Heptachlor epoxide	ND	2.4	ug/kg	0.24
Endosulfan I	ND	2.4	ug/kg	0.25
Dieldrin	330	2.4	ug/kg	0.18
4,4'-DDE	6.6	2.4	ug/kg	0.14
Endrin	4.5 PG	2.4	ug/kg	0.19
Endrin ketone	2.7 PG	2.4	ug/kg	0.27
Endrin aldehyde	1.6 J, PG	2.4	ug/kg	0.30
Endosulfan II	0.63 J, PG	2.4	ug/kg	0.54
4,4'-DDD	1.4 J, PG	2.4	ug/kg	0.21
Endosulfan sulfate	2.2 J	2.4	ug/kg	0.38
4,4'-DDT	15	2.4	ug/kg	0.32
Methoxychlor	2.2 J, PG	4.7	ug/kg	0.98
alpha-Chlordane	3.1	2.4	ug/kg	0.15
gamma-Chlordane	4.2	2.4	ug/kg	0.24
Toxaphene	ND	95	ug/kg	16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	95	(70 - 125)
Decachlorobiphenyl	99	(55 - 130)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

## GC Semivolatiles

Lot-Sample #....:	C7E030139-004	Work Order #....:	JV6L61AP	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7128268
Prep Date.....:	05/08/07	Analysis Date...:	05/09/07		
Prep Batch #....:	7128422	Analysis Time...:	14:40		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
* Moisture.....:	17	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.0	ug/kg	0.31
beta-BHC	ND	2.0	ug/kg	0.24
delta-BHC	ND	2.0	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.0	ug/kg	0.28
Heptachlor	ND	2.0	ug/kg	0.26
Aldrin	ND	2.0	ug/kg	0.21
Heptachlor epoxide	ND	2.0	ug/kg	0.20
Endosulfan I	ND	2.0	ug/kg	0.21
Dieldrin	ND	2.0	ug/kg	0.15
4,4'-DDE	ND	2.0	ug/kg	0.12
Endrin	ND	2.0	ug/kg	0.16
Endrin ketone	ND	2.0	ug/kg	0.23
Endrin aldehyde	ND	2.0	ug/kg	0.25
Endosulfan II	ND	2.0	ug/kg	0.46
4,4'-DDD	ND	2.0	ug/kg	0.18
Endosulfan sulfate	ND	2.0	ug/kg	0.33
4,4'-DDT	ND	2.0	ug/kg	0.27
Methoxychlor	ND	4.0	ug/kg	0.83
alpha-Chlordane	ND	2.0	ug/kg	0.12
gamma-Chlordane	ND	2.0	ug/kg	0.21
Toxaphene	ND	81	ug/kg	14
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	94	(70 - 125)		
Decachlorobiphenyl	97	(55 - 130)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC Semivolatiles

Lot-Sample #....: C7E030139-003	Work Order #....: JV6L51AP	Matrix.....: SOLID
Date Sampled....: 05/02/07	Date Received..: 05/03/07	MS Run #.....: 7128268
Prep Date.....: 05/08/07	Analysis Date...: 05/09/07	
Prep Batch #....: 7128422	Analysis Time...: 14:23	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol.: 20 mL
* Moisture.....: 27	Analyst ID.....: 402331	Instrument ID..: G/H
	Method.....: SW846 8081A	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.3	ug/kg	0.35
beta-BHC	ND	2.3	ug/kg	0.27
delta-BHC	ND	2.3	ug/kg	0.24
gamma-BHC (Lindane)	0.81 J	2.3	ug/kg	0.32
Heptachlor	ND	2.3	ug/kg	0.29
Aldrin	0.61 J, PG	2.3	ug/kg	0.24
Heptachlor epoxide	ND	2.3	ug/kg	0.23
Endosulfan I	ND	2.3	ug/kg	0.24
Dieldrin	120	2.3	ug/kg	0.17
4,4'-DDE	3.8	2.3	ug/kg	0.14
Endrin	1.8 J, PG	2.3	ug/kg	0.18
Endrin ketone	0.94 J, PG	2.3	ug/kg	0.26
Endrin aldehyde	1.0 J	2.3	ug/kg	0.29
Endosulfan II	ND	2.3	ug/kg	0.52
4,4'-DDD	1.4 J, PG	2.3	ug/kg	0.20
Endosulfan sulfate	0.61 J	2.3	ug/kg	0.37
4,4'-DDT	8.6	2.3	ug/kg	0.31
Methoxychlor	2.5 J	4.5	ug/kg	0.95
alpha-Chlordane	1.3 J, PG	2.3	ug/kg	0.14
gamma-Chlordane	2.3	2.3	ug/kg	0.23
Toxaphene	ND	91	ug/kg	16
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	91	(70 - 125)		
Decachlorobiphenyl	96	(55 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0203-02

## GC Semivolatiles

Lot-Sample #....: C7E030139-002  
 Date Sampled...: 05/02/07  
 Prep Date.....: 05/08/07  
 Prep Batch #....: 7128427  
 Dilution Factor: 1  
 % Moisture.....: 18

Work Order #....: JV6L01AQ  
 Date Received...: 05/03/07  
 Analysis Date...: 05/09/07  
 Analysis Time...: 17:56  
 Initial Wgt/Vol: 15 g  
 Analyst ID.....: 402360  
 Method.....: SW846 8082

Matrix.....: SOLID  
 MS Run #.....: 7128271  
 Final Wgt/Vol..: 20 mL  
 Instrument ID..: S/T

<u>PARAMETER</u>	<u>REPORTING</u>		
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>
Aroclor 1262	ND	20	ug/kg
Aroclor 1268	ND	20	ug/kg
Aroclor 1016	ND	20	ug/kg
Aroclor 1221	ND	20	ug/kg
Aroclor 1232	ND	20	ug/kg
Aroclor 1242	ND	20	ug/kg
Aroclor 1248	ND	20	ug/kg
Aroclor 1254	ND	20	ug/kg
Aroclor 1260	ND	20	ug/kg
<u>SURROGATE</u>		<u>RECOVERY</u>	
Tetrachloro-m-xylene	97	(40 - 140)	
Decachlorobiphenyl	87	(60 - 125)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP07-0304-01

## GC Semivolatiles

Lot-Sample #....:	C7E030139-001	Work Order #....:	JV6LP1AF	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7128271
Prep Date.....:	05/08/07	Analysis Date...:	05/09/07		
Prep Batch #....:	7128427	Analysis Time...:	17:32	Final Wgt/Vol..:	20 mL
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Instrument ID..:	S/T
% Moisture.....:	17	Analyst ID.....:	402360		
		Method.....:	SW846 8082		

<u>PARAMETER</u>	<u>REPORTING</u>			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	20	ug/kg	4.4
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.8
Aroclor 1232	ND	20	ug/kg	3.4
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	ND	20	ug/kg	2.9

<u>SURROGATE</u>	<u>PERCENT</u>		<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
T trachloro-m-xylene	96	(40 - 140)	
Decachlorobiphenyl	87	(60 - 125)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0203-03

## GC Semivolatiles

Lot-Sample #....: C7E030139-005	Work Order #....: JV6L81AQ	Matrix.....: SOLID
Date Sampled....: 05/02/07	Date Received...: 05/03/07	MS Run #.....: 7128271
Prep Date.....: 05/08/07	Analysis Date..: 05/09/07	
Prep Batch #....: 7128427	Analysis Time...: 19:05	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol.: 20 mL
% Moisture.....: 29	Analyst ID.....: 402360	Instrument ID..: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	24	ug/kg	5.2
Aroclor 1268	ND	24	ug/kg	3.0
Aroclor 1016	ND	24	ug/kg	3.5
Aroclor 1221	ND	24	ug/kg	4.5
Aroclor 1232	ND	24	ug/kg	4.0
Aroclor 1242	ND	24	ug/kg	3.8
Aroclor 1248	ND	24	ug/kg	2.2
Aroclor 1254	ND	24	ug/kg	3.3
Aroclor 1260	46	24	ug/kg	3.3

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	99	(40 - 140)
Decachlorobiphenyl	84	(60 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0304-02

GC Semivolatiles

Lot-Sample #....: C7E030139-004 Work Order #....: JV6L61AQ Matrix.....: SOLID  
Date Sampled....: 05/02/07 Date Received...: 05/03/07 MS Run #.....: 7128271  
Prep Date.....: 05/08/07 Analysis Date...: 05/09/07  
Prep Batch #....: 7128427 Analysis Time...: 18:42  
Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol..: 20 mL  
% Moisture.....: 17 Analyst ID.....: 402360 Instrument ID..: S/T  
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Aroclor 1262	ND	20	ug/kg	4.4
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.8
Aroclor 1232	ND	20	ug/kg	3.4
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	ND	20	ug/kg	2.8

SURROGATE	PERCENT	RECOVERY	
		RECOVERY	LIMITS
Tetrachloro-m-xylene	103	(40 - 140)	
Decachlorobiphenyl	85	(60 - 125)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## Tetra Tech NUS, Inc

Client Sample ID: 03TP08-0405-01

## GC Semivolatiles

Lot-Sample #....:	C7E030139-003	Work Order #....:	JV6L51AQ	Matrix.....:	SOLID
Date Sampled....:	05/02/07	Date Received...:	05/03/07	MS Run #.....:	7128271
Prep Date.....:	05/08/07	Analysis Date...:	05/09/07		
Prep Batch #....:	7128427	Analysis Time...:	18:19		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	27	Analyst ID.....:	402360	Instrument ID...:	S/T
		Method.....:	SW846 8082		

<u>PARAMETER</u>	REPORTING			
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	23	ug/kg	5.0
Aroclor 1268	ND	23	ug/kg	2.9
Aroclor 1016	ND	23	ug/kg	3.4
Aroclor 1221	ND	23	ug/kg	4.3
Aroclor 1232	ND	23	ug/kg	3.9
Aroclor 1242	ND	23	ug/kg	3.7
Aroclor 1248	ND	23	ug/kg	2.2
Aroclor 1254	ND	23	ug/kg	3.2
Aroclor 1260	ND	23	ug/kg	3.2

<u>SURROGATE</u>	PERCENT		RECOVERY	
	<u>RECOVERY</u>	<u>LIMITS</u>		
Tetrachloro-m-xylene	100	(40 - 140)		
Decachlorobiphenyl	85	(60 - 125)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## **APPENDIX C**

### **Support Documentation**

**CASE NARRATIVE  
TETRATECH NUS, INC.  
WILLOW GROVE  
CT0 003**

STL Lot #: C7E030139

**Sample Receiving:**

STL Pittsburgh received samples on May 3, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

**GC/MS Volatiles:**

All non-CCC compounds, associated with ICAL 4050507S, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 1,2-Dibromo-3-chloropropane, Bromoform, Chloroethane and Methylene chloride. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

All non-CCC compounds, associated with ICAL 7051507H, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Bromomethane and Chloroethane. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

The method blank for batch 7130081 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

**GC/MS Semivolatiles:**

All non-CCC compounds, associated with ICAL 051407APPIX722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Benzaldehyde, 2,4-Dinitrophenol, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene and Dibenz(a,h)anthracene.

**CASE NARRATIVE  
TETRATECH NUS, INC.  
WILLOW GROVE  
CT0 003**

STL Lot #: C7E030139

**GC/MS Semivolatiles(cont.):**

The following compound associated with ICAL 051407APPIX722 had %RSD >30% but are within expected ranges: Atrazine.

All non-CCC compounds, associated with ICAL 0522078270722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 4-Methylphenol, 4-Chloroaniline, 1,1'-Biphenyl, 2,3,4,6-Tetrachlorophenol, Fluorene, 4-Chlorophenyl-phenylether, 4,6-Dinitro-2-methylphenol, Atrazine, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and 2,4,6-Tribromophenol.

The following compound associated with ICAL 0522078270722 had %RSD >30% but are within expected ranges: Benzaldehyde and 2,4-Dinitrophenol.

The following compound had the %D > 25% in the calibration verification standard F05280C1722; but was within expected performance range for this compound: Caprolactam 28.0%.

Due to matrix effect, sample 03TP08-0203-03 was analyzed at a dilution. The extract was dark and oily in nature.

The LCS associated with batch 7127015 had 3-Methylphenol and 4-Methylphenol recover high and outside of criteria. This LCS is within acceptable criteria based on the number of marginal exceedances allowed according to DOD requirements.

**Pesticides:**

All compounds <20% RSD will use and average response factor curve if no visible improvement is accomplished using a quadratic curve. The curve plot is provided for any compound that required a "best-fit" evaluation.

**PCBs:**

There were no problems associated with the analysis.



## STL Pittsburgh

## INITIAL CALIBRATION DATA

Start Cal Date : 15-MAY-2007 22:11  
 End Cal Date : 16-MAY-2007 00:40  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.04  
 Integrator : HP RTE  
 Method file : \\QPITPA02\\d\\chem\\hp7.i\\7051507.b\\8260bh2o.m  
 Cal Date : 16-May-2007 01:06 JournetP  
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	250.000	—	RRP	% RSD
21 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
163 2,2,4-Trimethyl Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 1,1-Dichloroethane	0.55707	0.49949	0.50340	0.47955	0.46793	0.46566	0.49552	6.858	
25 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 2-Chloro-1,3-butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
158 1,2-Epoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
27 2,2-Dichloropropane	0.44070	0.38655	0.40148	0.41665	0.36481	0.36229	0.39541	7.713	
28 cis-1,2-dichloroethene	0.31824	0.28148	0.27646	0.24972	0.24994	0.24921	0.27084	10.102	
32 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
31 2-Butanone	0.04696	0.05159	0.04974	0.04295	0.05092	0.04794	0.04835	6.562	
M 29 1,2-Dichloroethene (total)	0.30971	0.27553	0.27356	0.26187	0.24960	0.25000	0.27005	8.284	
35 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
33 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
30 Bromochloromethane	0.12048	0.11516	0.11451	0.09787	0.10990	0.10914	0.11118	6.925	
37 Chloroform	0.49635	0.43596	0.43649	0.39603	0.39932	0.40202	0.42769	8.950	
38 1,1,1-Trichloroethane	0.43695	0.39753	0.39967	0.43044	0.36888	0.36669	0.40003	7.396	
102 Cyclohexane	0.69669	0.57871	0.57320	0.66670	0.51916	0.50932	0.59063	12.939	
34 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
41 Carbon Tetrachloride	0.35768	0.32545	0.33404	0.38091	0.31881	0.31877	0.33928	7.374	
40 1,1-Dichloropropene	0.40770	0.35931	0.35768	0.38528	0.32583	0.32257	0.35973	9.210	
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
42 Benzene	1.20262	1.02753	1.00807	0.95530	0.90594	0.90666	1.00102	11.073	
45 1,2-Dichloroethane	0.31671	0.27640	0.27588	0.23006	0.25914	0.25268	0.26848	10.867	
52 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
48 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
157 N-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
44 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
47 Trichloroethene	0.33865	0.29497	0.29408	0.29989	0.27164	0.27010	0.29489	8.438	
162 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 Methyl cyclohexane	0.57933	0.48908	0.47758	0.57594	0.43866	0.42543	0.49767	13.320	
49 1,2-Dichloropropane	0.28999	0.25331	0.25317	0.22730	0.23926	0.23742	0.25008	8.777	
50 Dibromomethane	0.10938	0.10109	0.09995	0.08460	0.09805	0.09630	0.09823	8.208	

**METHOD BLANK REPORT**

**GC/MS Volatiles**

**Client Lot #....:** C7E030139  
**MB Lot-Sample #:** C7E100000-081

**Analysis Date...:** 05/10/07  
**Dilution Factor:** 1

**Work Order #....:** JWMA41AA  
**Prep Date.....:** 05/10/07  
**Prep Batch #....:** 7130081  
**Initial Wgt/Vol:** 5 g  
**Analyst ID....:** 010099

**Matrix.....:** SOLID  
**Analysis Time..:** 06:14  
**Final Wgt/Vol..:** 5 mL  
**Instrument ID..:** HP4

<b>PARAMETER</b>	<b>REPORTING</b>			
	<b>RESULT</b>	<b>LIMIT</b>	<b>UNITS</b>	<b>METHOD</b>
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexan	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	1.6 J	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP07-0304-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6LP1AE

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
<i>alpha-BHC 5/10/07</i>	1	4.29	4.29	4.35	0.05611	
	2	4.37	4.30	4.40	0.1679	199.2
endosulfan II	1	7.53	7.50	7.56	0.5848	
	2	7.63	7.60	7.70	0.4229	38.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 1 of 1

FORM X PEST-1

OLM03.0

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP08-0203-03

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6L81AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	TO	CONCENTRATION	%D
alpha-BHC	1	4.29	4.29	4.35	0.1325	
	2	4.31	4.30	4.40	2.827	999.9
delta-BHC	1	5.62	5.60	5.66	0.8657	
	2	5.37	5.30	5.40	0.3865	124.0
gamma-BHC (Lindane)	1	4.66	4.65	4.71	0.5704	
	2	4.75	4.68	4.78	0.7002	22.8
Heptachlor	1	5.25	5.25	5.31	0.3681	
	2	5.17	5.12	5.22	0.7660	108.1
Aldrin	1	5.19	5.14	5.20	1.400	
	2	5.49	5.44	5.54	1.641	17.2
Dieldrin	1	6.88	6.85	6.91	231.5	
	2	6.83	6.78	6.88	214.6	7.9
4,4'-DDE	1	6.71	6.68	6.74	4.437	
	2	6.63	6.58	6.68	4.644	4.7
Endrin	1	7.19	7.16	7.22	3.192	
	2	7.21	7.16	7.26	5.278	65.4

page 1 of 3

FORM X PEST-1

OLM03.0

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP08-0203-03

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6L81AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan II	1	7.53	7.50	7.56	0.4490	103.6
	2	7.65	7.60	7.70	0.9140	
4,4'-DDD	1	7.44	7.41	7.47	3.265	224.6
	2	7.41	7.36	7.46	1.006	
Endosulfan sulfate	1	8.05	8.04	8.10	1.304	20.2
	2	8.29	8.22	8.32	1.567	
4,4'-DDT	1	7.89	7.86	7.92	9.508	14.6
	2	7.81	7.76	7.86	10.90	
Methoxychlor	1	8.69	8.65	8.71	1.552	547.6
	2	8.72	8.64	8.74	10.05	
Endrin ketone	1	8.82	8.78	8.84	4.608	144.4
	2	9.07	9.02	9.12	1.885	
Endrin aldehyde	1	7.74	7.69	7.75	1.098	88.0
	2	7.89	7.86	7.96	2.064	
alpha-Chlordane	1	6.47	6.43	6.49	2.209	9.6
	2	6.40	6.36	6.46	2.016	

page 2 of 3

FORM X PEST-1

OLM03.0

**PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

03TP08-0203-03

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6L81AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-Chlordane	1	6.37	6.34	6.40	2.955	
	2	6.34	6.29	6.39	2.143	37.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 3 of 3

FORM X PEST-1

OLM03.0

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP08-0405-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6L51AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
	==	=====	FROM	TO		=====
alpha-BHC <i>m/z 107</i>	1	4.29	4.29	4.35	0.09884	
	2	4.32	4.30	4.40	1.856	999.9
gamma-BHC (Lindane)	1	4.66	4.65	4.71	0.4746	
	2	4.75	4.68	4.78	0.5935	25.0
Aldrin	1	5.16	5.14	5.20	0.7382	
	2	5.49	5.44	5.54	0.4485	64.6
Dieldrin	1	6.88	6.85	6.91	85.98	
	2	6.83	6.78	6.88	80.16	7.3
4,4'-DDE	1	6.71	6.68	6.74	2.723	
	2	6.63	6.58	6.68	2.749	1.0
Endrin	1	7.19	7.16	7.22	1.290	
	2	7.21	7.16	7.26	2.216	71.8
4,4'-DDD	1	7.44	7.41	7.47	1.980	
	2	7.41	7.36	7.46	1.022	93.7
Endosulfan sulfate	1	8.05	8.04	8.10	0.4464	
	2	8.29	8.22	8.32	0.3413	30.8

page 1 of 2

FORM X PEST-1

OLM03.0

10A  
PESTICIDE IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP08-0405-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E030139

Lab Sample ID: JV6L51AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW FROM		TO	CONCENTRATION	%D
	---	----	-----	-----	-----	-----	-----
4,4'-DDT	1	7.89	7.86	7.92		5.727	
	2	7.81	7.76	7.86		6.337	10.6
Methoxychlor	1	8.69	8.65	8.71		1.350	
	2	8.73	8.64	8.74		1.854	37.3
Endrin ketone	1	8.81	8.78	8.84		1.118	
	2	9.07	9.02	9.12		0.6908	61.8
Endrin aldehyde	1	7.74	7.69	7.75		0.7488	
	2	7.89	7.86	7.96		0.7464	0.3
alpha-Chlordane	1	6.47	6.43	6.49		1.439	
	2	6.40	6.36	6.46		0.9836	46.3
gamma-Chlordane	1	6.37	6.34	6.40		1.699	
	2	6.34	6.29	6.39		1.222	39.0
	1	_____	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____	_____

page 2 of 2

FORM X PEST-1

OLM03.0

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i      Injection Date: 10-MAY-2007 05:10  
 Lab File ID: CC40510.D      Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007  
 Analysis Type: SOIL      Init. Cal. Times: 18:10 06:23  
 Lab Sample ID: VSTD50      Quant Type: ISTD  
 Method: \\qpitpa02\d\chem\hp4.i\4051007d.b\8260bsoil.m

COMPOUND	RRF	RP50	MIN	MAX
		RRF	tD	tD
53 Bromodichloromethane	0.30313	0.28503 0.010	-6.0	25.0
57 cis-1,3-Dichloropropene	0.38751	0.36636 0.010	-5.5	25.0
58 4-Methyl-2-Pentanone	1.09966	1.25672 0.010	14.3	50.0
60 Toluene	5.61198	5.81210 0.010	3.6	20.0
61 trans-1,3-Dichloropropene	1.38688	1.46298 0.010	5.5	25.0
63 1,3-Dichloropropane	1.41040	1.50024 0.010	6.4	25.0
64 1,1,2-Trichloroethane	0.76079	0.81695 0.010	7.4	25.0
65 Tetrachloroethene	0.96249	1.01046 0.010	5.0	25.0
66 2-Hexanone	0.94901	1.20983 0.010	27.5	50.0
67 Dibromochloromethane	0.78001	0.81471 0.010	4.4	25.0
68 1,2-Dibromoethane	0.74801	0.79150 0.010	5.8	25.0
70 Chlorobenzene	3.18524	3.34195 0.300	4.9	25.0
71 1,1,1,2-Tetrachloroethane	0.93977	1.00472 0.010	6.9	25.0
72 Ethylbenzene	1.89382	1.99000 0.010	5.1	20.0
73 m + p-Xylene	2.29584	2.44954 0.010	6.7	25.0
74 Xylene-o	2.15943	2.30335 0.010	6.7	25.0
M 75 Xylenes (total)	2.25037	2.40081 0.010	6.7	25.0
76 Styrene	3.54795	3.79363 0.010	6.9	25.0
77 Bromoform	0.37923	0.39190 0.100	3.3	25.0
78 Isopropylbenzene	5.95698	6.34134 0.010	6.5	25.0
83 1,1,2,2-Tetrachloroethane	0.57010	0.66096 0.300	15.9	25.0
91 1,3-Dichlorobenzene	1.60913	1.81193 0.010	12.6	25.0
93 1,4-Dichlorobenzene	1.63625	1.83610 0.010	12.2	25.0
95 1,2-Dichlorobenzene	1.42330	1.61928 0.010	13.8	25.0
96 1,2-Dibromo-3-chloropropane	0.09006	0.10237 0.010	13.7	50.0
97 1,2,4-Trichlorobenzene	0.95320	1.08250 0.010	13.6	25.0
100 1,2,3-Trichlorobenzene	0.80280	0.89493 0.010	11.5	25.0

no positive detections  
in associated  
Samples.

## STL Pittsburgh

## INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53  
 End Cal Date : 22-MAY-2007 08:18  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\qpitpa02\\d\\chem\\722.i\\5pt.b\\8270b.m  
 Last Edit : 23-May-2007 11:12 bungardf  
 Curve Type : Average

## Calibration File Names:

Level 1: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C2.D  
 Level 2: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C3.D  
 Level 3: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C1.D  
 Level 4: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C4.D  
 Level 5: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C5.D  
 Level 6: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C6.D

Compound	20.000	40.000	50.000	80.000	120.000	160.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
223 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 3,6-d Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
198 1,4-Dioxane	0.80783	0.85090	0.78322	0.79489	0.77457	0.74499	0.79273	4.483
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Pyridine	2.09834	2.06140	2.00258	1.95954	1.90499	1.86664	1.97892	4.792
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
200 Sulfotep	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
10 N-Nitrosodimethylamine	1.07611	1.09582	1.02781	1.04709	1.02654	0.98797	1.04356	3.694
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
12 3-Chloropropionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 Methyl methanesulfonate	1.12369	1.14981	1.07439	1.09961	1.03304	1.00899	1.08159	4.967
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
220 Benzaldehyde	1.07180	0.91144	0.65148	0.67251	0.47508	0.38609	0.69473	37.259
21 Aniline	1.60986	1.55481	1.47089	1.48016	1.45115	1.43072	1.49960	4.572
22 Phenol	1.41866	1.44790	1.46942	1.45389	1.50968	1.58503	1.48076	3.995
23 bis(2-Chloroethyl)ether	1.06035	1.03936	1.04891	1.03121	1.07674	1.12280	1.06256	3.190
24 2-Chlorophenol	1.29291	1.31277	1.31634	1.29511	1.37421	1.42938	1.33679	4.046
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 1,3-Dichlorobenzene	1.61658	1.61194	1.60833	1.63125	1.73334	1.78936	1.66513	4.624
27 1,4-Dichlorobenzene	1.64545	1.61147	1.60397	1.66605	1.73463	1.80389	1.67758	4.630
28 1,2-Dichlorobenzene	1.47777	1.46905	1.48051	1.51918	1.60528	1.69452	1.54039	5.893

## STL Pittsburgh

## INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53  
 End Cal Date : 22-MAY-2007 08:18  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\qpitpa02\\d\\chem\\722.i\\5pt.b\\8270b.m  
 Last Edit : 23-May-2007 11:12 bungardf  
 Curve Type : Average

Compound	20.000	40.000	50.000	80.000	120.000	160.000	____	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
64 Hexachlorocyclopentadiene	0.60712	0.66723	0.61996	0.69838	0.79025	0.83299	0.70266	13.028	<-
65 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
66 2,4,6-Trichlorophenol	0.45357	0.47219	0.45452	0.50427	0.55472	0.59912	0.50640	11.712	<-
67 2,4,5-Trichlorophenol	0.48704	0.50046	0.48099	0.53433	0.59195	0.64911	0.54065	12.403	<-
68 1,2,3,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
222 1,1'-Biphenyl	1.72145	1.89855	1.49742	2.05628	2.25971	2.38909	1.97041	16.942	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
70 2-Chloronaphthalene	1.16089	1.18037	1.14238	1.24444	1.37788	1.50250	1.26808	11.294	<-
219 1-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M 188 Isosafrole, total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
73 2-Nitroaniline	0.34926	0.34788	0.33788	0.36522	0.37390	0.38990	0.36067	5.353	<-
74 1,2,3,4-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
76 Dimethylphthalate	1.45567	1.44136	1.40659	1.52910	1.59766	1.71326	1.52394	7.571	<-
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78 2,6-Dinitrotoluene	0.31544	0.31326	0.31624	0.33918	0.36132	0.39499	0.34007	9.630	<-
79 Acenaphthylene	1.66120	1.70401	1.66303	1.82486	1.96182	2.09688	1.81863	9.839	<-
80 1,2-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
81 3-Nitroaniline	0.27480	0.26572	0.27033	0.28792	0.29402	0.32045	0.28554	7.067	<-
82 Acenaphthene	1.07553	1.08940	1.09664	1.22547	1.35570	1.52906	1.22863	14.860	<-
83 2,4-Dinitrophenol	0.09951	0.13888	0.16804	0.21393	0.24304	0.29476	0.19303	37.062	(circled)
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
85 4-Nitrophenol	0.38190	0.38201	0.38461	0.40746	0.41035	0.44886	0.40253	6.478	<-
86 Dibenzofuran	1.72579	1.75329	1.70627	1.84469	1.98057	2.11357	1.85403	8.760	<-
87 2,4-Dinitrotoluene	0.43883	0.42436	0.43152	0.46743	0.47173	0.52426	0.45969	8.052	<-
88 2,3,4,6-Tetrachlorophenol	0.39149	0.43073	0.43780	0.52983	0.55654	0.63042	0.49613	18.352	<-
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 2,3,5,6-Tetrachlorophenol	0.33483	0.40425	0.39276	0.49451	0.54642	0.63361	0.46773	23.757	<-
92 2-Naphthylamine	0.69675	0.67067	0.80611	0.59253	0.44331	0.38924	0.59977	26.453	<-
93 Diethylphthalate	1.47174	1.44266	1.41667	1.54458	1.59866	1.70892	1.53054	7.205	<-
94 Fluorene	1.44262	1.48943	1.47987	1.74136	1.94088	2.18480	1.71316	17.565	<-
95 4-Chlorophenyl-phenylether	0.86962	0.89279	0.88318	1.01591	1.12463	1.27777	1.01065	16.222	<-
96 4-Nitroaniline	0.32511	0.32735	0.33874	0.38464	0.41483	0.43388	0.37076	12.715	<-

## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E050116

WO #: JWDEL1CD

BATCH: 7127015

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Acenaphthene	1990	ND	1090	55	45 - 110	
4-Chloro-3-methylphenol	1990	ND	1100	55	45 - 115	
2-Chlorophenol	1990	ND	871	44*	45 - 105	a
1,4-Dichlorobenzene	1990	ND	601	30*	35 - 105	a
2,4-Dinitrotoluene	1990	ND	1170	59	50 - 115	
4-Nitrophenol	1990	ND	1300	65	15 - 140	
N-Nitrosodi-n-propylamine	1990	ND	1060	53	40 - 115	
Pentachlorophenol	1990	ND	1600	80	25 - 120	
Phenol	1990	ND	963	48	40 - 100	
Pyrene	1990	ND	1240	62	45 - 125	
1,2,4-Trichlorobenzene	1990	ND	819	41*	45 - 110	a
bis(2-Ethylhexyl) phthalate	1990	ND	1320	66	45 - 125	
Acenaphthylene	1990	ND	1140	57	45 - 105	
Anthracene	1990	ND	1190	60	55 - 105	
Benzo(a)anthracene	1990	ND	1220	61	50 - 110	
Benzo(b)fluoranthene	1990	ND	868	44*	45 - 115	a
Benzo(k)fluoranthene	1990	ND	1170	59	45 - 125	
Benzo(ghi)perylene	1990	ND	1530	77	40 - 125	
Benzo(a)pyrene	1990	ND	1210	61	50 - 110	
bis(2-Chloroethoxy)methane	1990	ND	906	45	45 - 110	
bis(2-Chloroethyl) ether	1990	ND	744	37*	40 - 105	a
4-Bromophenyl phenyl ether	1990	ND	1200	60	45 - 115	
Butyl benzyl phthalate	1990	ND	1210	61	50 - 125	
Carbazole	1990	ND	1220	61	45 - 115	
4-Chloroaniline	1990	ND	631	32	10 - 95	
2-Chloronaphthalene	1990	ND	1080	54	45 - 105	
4-Chlorophenyl phenyl eth	1990	ND	1130	57	45 - 110	
Chrysene	1990	ND	1240	62	55 - 110	

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## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E050116

WO #: JWDEL1CD

BATCH: 7127015

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Dibenz(a,h)anthracene	1990	ND	1760	88	40 - 125	
Dibenzofuran	1990	ND	1110	56	50 - 105	
Di-n-butyl phthalate	1990	ND	1200	60	55 - 110	
1,2-Dichlorobenzene	1990	ND	635	32*	45 - 95	a
1,3-Dichlorobenzene	1990	ND	577	29*	40 - 100	a
3,3'-Dichlorobenzidine	1990	ND	475	24	10 - 130	
2,4-Dichlorophenol	1990	ND	1070	54	45 - 110	
Diethyl phthalate	1990	ND	1210	61	50 - 115	
2,4-Dimethylphenol	1990	ND	737	37	30 - 105	
Dimethyl phthalate	1990	ND	1170	59	50 - 110	
4,6-Dinitro-2-methylpheno	1990	ND	688	34	30 - 135	
2,4-Dinitrophenol	1990	ND	358	18	15 - 130	
2,6-Dinitrotoluene	1990	ND	1160	58	50 - 110	
Di-n-octyl phthalate	1990	ND	1110	56	40 - 130	
Fluoranthene	1990	ND	932	47*	55 - 115	a
Fluorene	1990	ND	1160	58	50 - 110	
Hexachlorobenzene	1990	ND	1190	60	45 - 120	
Hexachlorobutadiene	1990	ND	827	41	40 - 115	
Hexachloroethane	1990	ND	599	30*	35 - 110	a
Indeno(1,2,3-cd)pyrene	1990	ND	1460	73	40 - 120	
Isophorone	1990	ND	1040	52	45 - 110	
2-Methylnaphthalene	1990	ND	938	47	45 - 105	
2-Methylphenol	1990	ND	900	45	40 - 105	
Naphthalene	1990	ND	878	44	40 - 105	
2-Nitroaniline	1990	ND	1190	60	45 - 120	
3-Nitroaniline	1990	ND	1050	53	25 - 110	
4-Nitroaniline	1990	ND	1160	58	35 - 115	
Nitrobenzene	1990	ND	894	45	40 - 115	

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## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E050116

WO #: JWDEL1CE

BATCH: 7127015

COMPOUND	SPIKE	MSD	MSD	QC LIMITS				QUAL
	ADDED (ug/kg)	CONCENT. (ug/kg)	% REC	% RPD	RPD	REC		
Acenaphthene	1990	1080	54	1.5	44	45 - 110		
4-Chloro-3-methylphenol	1990	1060	53	3.4	55	45 - 115		
2-Chlorophenol	1990	867	43*	0.52	54	45 - 105	a	
1,4-Dichlorobenzene	1990	595	30*	1.2	59	35 - 105	a	
2,4-Dinitrotoluene	1990	1140	57	2.5	45	50 - 115		
4-Nitrophenol	1990	1270	64	1.7	64	15 - 140		
N-Nitrosodi-n-propylamine	1990	1060	53	0.25	50	40 - 115		
Pentachlorophenol	1990	1590	80	0.99	87	25 - 120		
Phenol	1990	981	49	1.9	50	40 - 100		
Pyrene	1990	1280	64	3.2	66	45 - 125		
1,2,4-Trichlorobenzene	1990	797	40*	2.8	54	45 - 110	a	
bis(2-Ethylhexyl) phthalate	1990	1360	68	2.9	31	45 - 125		
Acenaphthylene	1990	1120	56	1.7	41	45 - 105		
Anthracene	1990	1200	60	0.19	22	55 - 105		
Benzo(a)anthracene	1990	1200	60	1.2	23	50 - 110		
Benzo(b)fluoranthene	1990	869	44*	0.16	28	45 - 115	a	
Benzo(k)fluoranthene	1990	1200	60	3.1	31	45 - 125		
Benzo(ghi)perylene	1990	1550	78	1.2	50	40 - 125		
Benzo(a)pyrene	1990	1210	61	0.44	31	50 - 110		
bis(2-Chloroethoxy)methane	1990	903	45	0.34	35	45 - 110		
bis(2-Chloroethyl) ether	1990	732	37*	1.6	33	40 - 105	a	
4-Bromophenyl phenyl ether	1990	1190	60	1.2	20	45 - 115		
Butyl benzyl phthalate	1990	1220	61	0.41	35	50 - 125		
Carbazole	1990	1200	60	2.1	20	45 - 115		
4-Chloroaniline	1990	608	30	3.8	28	10 - 95		
2-Chloronaphthalene	1990	1050	52	3.3	28	45 - 105		
4-Chlorophenyl phenyl ether	1990	1110	56	1.8	29	45 - 110		
Chrysene	1990	1280	64	2.8	31	55 - 110		

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## SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E050116

WO #: JWDEL1CE

BATCH: 7127015

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS			QUAL
			% REC	% RPD	RPD	REC		
Dibenz(a,h)anthracene	1990	1710	86	3.0	55	40 - 125		
Dibenzofuran	1990	1100	55	0.61	27	50 - 105		
Di-n-butyl phthalate	1990	1190	59	1.4	24	55 - 110		
1,2-Dichlorobenzene	1990	643	32*	1.2	25	45 - 95	a	
1,3-Dichlorobenzene	1990	581	29*	0.67	46	40 - 100	a	
3,3'-Dichlorobenzidine	1990	506	25	6.5	56	10 - 130		
2,4-Dichlorophenol	1990	1050	53	1.7	27	45 - 110		
Diethyl phthalate	1990	1180	59	2.4	29	50 - 115		
2,4-Dimethylphenol	1990	729	37	1.0	26	30 - 105		
Dimethyl phthalate	1990	1160	58	0.73	30	50 - 110		
4,6-Dinitro-2-methylphenol	1990	631	32	8.6	39	30 - 135		
2,4-Dinitrophenol	1990	298	15	18	56	15 - 130		
2,6-Dinitrotoluene	1990	1120	56	3.6	39	50 - 110		
Di-n-octyl phthalate	1990	1120	56	1.4	29	40 - 130		
Fluoranthene	1990	908	46*	2.7	23	55 - 115	a	
Fluorene	1990	1130	56	3.4	29	50 - 110		
Hexachlorobenzene	1990	1180	59	0.60	29	45 - 120		
Hexachlorobutadiene	1990	822	41	0.64	25	40 - 115		
Hexachloroethane	1990	599	30*	0.010	29	35 - 110	a	
Indeno(1,2,3-cd)pyrene	1990	1450	73	0.74	37	40 - 120		
Isophorone	1990	1020	51	2.0	30	45 - 110		
2-Methylnaphthalene	1990	910	46	3.0	27	45 - 105		
2-Methylphenol	1990	907	45	0.78	29	40 - 105		
Naphthalene	1990	859	43	2.2	25	40 - 105		
2-Nitroaniline	1990	1180	59	1.3	39	45 - 120		
3-Nitroaniline	1990	1010	51	3.2	45	25 - 110		
4-Nitroaniline	1990	1100	55	4.6	44	35 - 115		
Nitrobenzene	1990	885	44	0.94	29	40 - 115		

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## SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Lot #: C7E070000

WO #: JWEJ51AC  
BATCH: 7127015

COMPOUND	SPIKE ADDED	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
	(ug/kg)	(ug/kg)			
2,2'-oxybis(1-Chloropropyl)	1670	1290	77	20 - 115	
N-Nitrosodimethylamine	1670	1470	88	20 - 115	
3-Methylphenol & 4-Methyl	3330	3580	107*	40 - 105	a
1,2-Diphenylhydrazine (as)	1670	1560	93	1 - 175	

## NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

\* Values outside of QC limits

Spike Recovery: 1 out of 66 outside limits

## COMMENTS:

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FORM III